Exhibit 35

Judith K. Wolf, M.D.

Page 1

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF NEW JERSEY

IN RE: JOHNSON & :
JOHNSON TALCUM POWDER :
PRODUCTS MARKETING, :
SALES PRACTICES, AND :

PRODUCTS LIABILITY : CASE NO. 16-2738 LITIGATION : (FLW) (LHG)

:

THIS DOCUMENT RELATES : TO ALL CASES :

:

MDL Docket No. 2738 :

- - -

Monday, January 7, 2019

- - -

Videotaped Oral Deposition of

JUDITH K. WOLF, M.D. taken pursuant to

notice, was held at the Hilton Austin, 500

East 4th Street, Austin, Texas, beginning at

9:08 a.m., on the above date, before Micheal

A. Johnson, Registered Diplomate Reporter,

Certified Realtime Reporter, and Notary

Public for the State of Texas.

- - -

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1 A P P E A R A N C E S: 2 BEASLEY ALLEN, PC BY: P LEIGH O'DELL, ESQUIRE 3 leigh odell@beasleyallen com Margaret M Thompson, ESQUIRE 4 margaret thompson@beasleyallen com 218 Commerce Street 5 Montgomery, Alabama 36104 (334) 269-2343 6 Counsel for Plaintiffs' Steering Committee 7 8 ROBINSON CALCAGNIE, INC BY: CYNTHIA L GARBER, ESQUIRE cgarber@robinsonfirm com 19 Corporate Plaza Drive 10 Newport Beach, California 92660 (949) 720-1288 11 Counsel for Plaintiffs' Steering Committee 12 13 BLOOD HURST & O'REARDON LLP BY: PAULA R BROWN, ESQUIRE pbrown@hbolaw.com 501 West Broadway, Suite 1490 15 San Diego, California 92101 (619) 338-1100 16 Counsel for Plaintiffs' Steering Committee 17 18 WEIL, GOTSHAL & MANGES LLP BY: ALLISON M BROWN, ESQUIRE allison brown@weil com 17 Hulfish Street, Suite 201 Princeton, New Jersey 08542-3792 (609) 986-1104 21 Counsel for Johnson & Johnson entities		1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	A P P E A R A N C E S: SEYFARTH SHAW, LLP BY: RENEE B. APPEL, ESQUIRE rappel@seyfarth.com 975 F Street, N.W. Washington, D.C. 20004-1454 (202) 463-2400 Counsel for Personal Care Products VIDEOGRAPHER: Shane Ramirez, Golkow Litigation Services
1 A P P E A R A N C E S: 2 WEIL, GOTSHAL & MANGES LLP BY: ALEXIS KELLERT, ESQUIRE 3 alexis kellert@weil com 767 Fifth Avenue 4 New York, New York 10153-0119 (212) 310-8468 5 Counsel for Johnson & Johnson entities 6 DRINKER BIDDLE & REATH, LLP 7 BY: KATHERINE MCBETH, ESQUIRE katherine mcbeth@dbr com 8 One Logan Square, Suite 2000 Philadelphia, Pennsylvania 19103-6996 (215) 988-2706 Counsel for Johnson & Johnson entities 10 11 GORDON REES SCULLY MANSUKHANI LLP BY: MICHAEL R KLATT, ESQUIRE 12 mklatt@gordonrees com 816 Congress Avenue, Suite 1510 Austin, Texas 78701 (512) 391-0197 14 Counsel for Imerys Talc America 15 16 BY: MARK K SILVER, ESQUIRE msilver@coughlinduffy com 350 Mount Kemble Avenue Morristown, New Jersey 07962 (973) 267-0058 Counsel for Imerys Talc America 19 20 TUCKER ELLIS LLP BY: TARIQ M NAEEM, ESQUIRE tariq nacem@tuckerellis com 950 Main Avenue, Suite 1100 Cleveland, Ohio 44113-7213 (216) 696-3675	Page 3	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	INDEX JUDITH K WOLF, M D January 7, 2019 APPEARANCES 2 PROCEEDINGS 9 EXAMINATION OF JUDITH K WOLF, M D: BY MS BROWN 9 BY MR KLATT 388 BY MS O'DELL 446 BY MS BROWN 461 BY MS BROWN 461 BY MS O'DELL 482 BY MS O'DELL 482 CERTIFICATE 485 ACKNOWLEDGMENT OF DEPONENT 486 ERRATA 487 LAWYER'S NOTES 488

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3 (Pages 6 to 9)

	Page 10		Page 12
1	A. That was I want to say, was	1	today, you were the attorney representing
2	nearly three years ago. It was a wrongful	2	plaintiffs provided me with a number of
3	termination case at a hospital I used to	3	documents in request to this notice that I'd
4	work.	4	like to mark and ask you about.
5	Q. And were you the plaintiff in	5	A. Okay.
6	that case?	6	Q. And so the first one we'll mark
7	A. No.	7	as Exhibit 2 to your deposition.
8	Q. Okay. Were you a witness in	8	(Deposition Exhibit 2 marked
9	that case?	9	for identification.)
10	A. A witness.	10	BY MS. BROWN:
11	Q. Okay. And you're probably	11	Q. Which is an UpToDate printout
12	familiar with some of the rules of a	12	from January 5th, 2019.
13	deposition, having done this not too long	13	A. Yes.
14	ago, but I'll just remind you a little bit.	14	Q. We only have one copy, so let
15	A. Okay.	15	me hand it to you and ask you to describe
16	•	16	what Exhibit 2 is.
17	Q. We'll try and talk one at a	17	A. This is an article from
	time, so that the court reporter can get down		
18	all of my questions and all of your answers.	18	UpToDate that describes what evidence-based
19	Do you understand that you are under oath	19	medicine is, which is I provided because
20	here today same as if you were in a court of	20	this is how I reviewed the subject and how I
21	law?	21	review any subject when I'm looking to treat
22	A. Yes.	22	a patient or taking care of a patient or
23	Q. Okay. If you don't understand	23	working on a research project, and I thought
24	one of my questions, will you let me know?	24	that this was a good outline and description
	Page 11		Page 13
1	A. Yes.	1	of what I do.
2	Q. And if you go ahead and answer	2	Q. Do you consider UpToDate to be
3	them, is it fair to assume you understood	3	a reliable source in your field?
4	what I was asking?	4	A. I think it's a
5	A. Yes.	5	MS. O'DELL: Object to form.
6	Q. Okay. We'll take breaks	6	A. I believe it's a good starting
7	throughout the day. It's not a marathon, so	7	place. If I read something on UpToDate and I
8	just let me know if you need a break and	8	want something more in depth, the first thing
9	we'll be happy to accommodate you. Okay?	9	I usually do is go to the references and look
	A. Okay.	10	at those. If and if I want more
10		1	
10 11	Q. I'm handing you, Dr. Wolf, what	11	information and there's an UpToDate, I'll do
		11 12	information and there's an UpToDate, I'll do a general PubMed literature search to find
11	we have marked as Exhibit 1 to your		
11 12	we have marked as Exhibit 1 to your deposition, which is the notice of your	12	a general PubMed literature search to find other articles.
11 12 13	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition.	12 13 14	a general PubMed literature search to find other articles. BY MS. BROWN:
11 12 13 14	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked	12 13 14 15	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in
11 12 13 14 15	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.)	12 13 14 15 16	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about
11 12 13 14 15 16	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN:	12 13 14 15 16 17	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the
11 12 13 14 15 16 17	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document	12 13 14 15 16 17 18	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in
11 12 13 14 15 16 17 18 19	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document before?	12 13 14 15 16 17 18 19	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in Exhibit 2?
11 12 13 14 15 16 17 18 19 20	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document before? A. Yes.	12 13 14 15 16 17 18 19 20	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in Exhibit 2? A. Yes.
11 12 13 14 15 16 17 18 19 20 21	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document before? A. Yes. Q. Okay. And when was that?	12 13 14 15 16 17 18 19 20 21	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in Exhibit 2? A. Yes. Q. And describe that for us
11 12 13 14 15 16 17 18 19 20 21 22	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document before? A. Yes. Q. Okay. And when was that? A. I saw it several days ago. I	12 13 14 15 16 17 18 19 20 21 22	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in Exhibit 2? A. Yes. Q. And describe that for us briefly, if you would.
11 12 13 14 15 16 17 18 19 20 21	we have marked as Exhibit 1 to your deposition, which is the notice of your deposition. (Deposition Exhibit 1 marked for identification.) BY MS. BROWN: Q. Have you seen this document before? A. Yes. Q. Okay. And when was that?	12 13 14 15 16 17 18 19 20 21	a general PubMed literature search to find other articles. BY MS. BROWN: Q. As part of your methodology in your report that we're here to talk about today in the MDL, did you employ the evidence-based medicine approach described in Exhibit 2? A. Yes. Q. And describe that for us

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1	powder product cause ovarian cancer? And	1	but if there's talcum powder in them, yes.
2	then the next part is finding the available	2	Q. Okay. What about tampons or
3	evidence, which is, for me, looking at the	3	other feminine products that contain talcum
4	literature that I had at my house to start,	4	powder? Are you including that in your
5	going on PubMed and searching literature,	5	definition of a "talcum powder product"?
6	looking at references from those, going	6	A. Again, I haven't really thought
7	finding more literature from the references	7	about tampons as containing talcum powder as
8	that I pulled. Some references were provided	8	a possibility, so I would say I hadn't
9	by the attorneys, some other information that	9	considered that.
10	I asked for, they provided. And so trying to	10	Q. Okay. What about talc-dusted
11	go through as many sources as I could find,	11	condoms? Are you including that in your
12	to find as much information about the topic	12	definition of a "talcum powder product"?
13	that I could find, both in human studies and	13	A. I am, but my understanding is,
14	in vitro studies and in animal studies.	14	that since the '90s, that practice has
15	Q. And so if I understand your	15	stopped because of concerns.
16	methodology, it was first formulating a	16	Q. And tell me what you're relying
17	question?	17	on for that understanding.
18	A. Yes.	18	A. I have a reference in my
19	Q. Is that right? And the	19	report. I have to look up the name of the
20	question at issue as it relates to this MDL	20	author.
21	report was, does genital application of	21	Q. Okay. And the reference in
22	talcum powder cause cancer; is that right?	22	your report is actually to an internal PCP
23	A. Does genital does talcum	23	document. Is that what you're relying on for
24	powder product cause ovarian cancer.	24	your understanding that condoms no longer
			•
	Page 15		Page 17
1	Q. That's the question that you	1	contain talcum powder?
2	Q. That's the question that you endeavored to answer in your report?	1 2	contain talcum powder? A. No. Well, can I look at my
	Q. That's the question that you endeavored to answer in your report?A. Yes.		contain talcum powder? A. No. Well, can I look at my report for a second?
2 3 4	Q. That's the question that you endeavored to answer in your report?A. Yes.Q. Is that right?	2 3 4	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely.
2 3 4 5	Q. That's the question that you endeavored to answer in your report?A. Yes.Q. Is that right?A. Yes.	2 3 4 5	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.)
2 3 4 5 6	 Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does 	2 3 4 5 6	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references
2 3 4 5	 Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you 	2 3 4 5 6 7	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns
2 3 4 5 6 7 8	 Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? 	2 3 4 5 6 7 8	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang,
2 3 4 5 6 7 8 9	 Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum 	2 3 4 5 6 7 8	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler.
2 3 4 5 6 7 8 9	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general.	2 3 4 5 6 7 8 9	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN:
2 3 4 5 6 7 8 9 10	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum	2 3 4 5 6 7 8 9 10 11	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor,
2 3 4 5 6 7 8 9 10 11 12	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"?	2 3 4 5 6 7 8 9 10 11 12	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on?
2 3 4 5 6 7 8 9 10 11 12 13	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder	2 3 4 5 6 7 8 9 10 11 12 13	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5.
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or	2 3 4 5 6 7 8 9 10 11 12 13 14	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body.	2 3 4 5 6 7 8 9 10 11 12 13 14	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays that contain talcum powder? Do you include	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and Casper and Chandler 1995, as well as an
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays that contain talcum powder? Do you include that in your definition? A. I would include that in my definition.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and Casper and Chandler 1995, as well as an internal PCPC document and McCullough in 1996; is that right? A. My understanding that there was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays that contain talcum powder? Do you include that in your definition? A. I would include that in my definition. Q. Okay. What about soaps that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and Casper and Chandler 1995, as well as an internal PCPC document and McCullough in 1996; is that right? A. My understanding that there was concern about talcum powder on condoms is
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays that contain talcum powder? Do you include that in your definition? A. I would include that in my definition. Q. Okay. What about soaps that contain talcum powder? Would you include	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and Casper and Chandler 1995, as well as an internal PCPC document and McCullough in 1996; is that right? A. My understanding that there was concern about talcum powder on condoms is from the Kang, the Griffin and the Casper
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. That's the question that you endeavored to answer in your report? A. Yes. Q. Is that right? A. Yes. Q. And when you say talcum does talcum powder cause ovarian cancer, do you have a particular product in mind? A. I'm thinking about talcum powder product in general. Q. And how do you define a "talcum powder product"? A. Anything that comes in a powder form that people might apply to their body or someone else's body. Q. What about deodorizing sprays that contain talcum powder? Do you include that in your definition? A. I would include that in my definition. Q. Okay. What about soaps that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	contain talcum powder? A. No. Well, can I look at my report for a second? Q. Absolutely. (Witness reviews document.) A. There are actually references above the PCP report, talking about concerns of ovarian cancer and talc on condoms, Kang, Griffin and Ellis, Casper and Chandler. BY MS. BROWN: Q. And for the record, Doctor, what page are you on? A. I'm on page 5. Q. Okay. And your understanding that condoms no longer are dusted with talc comes from Kang, Griffin and Ellis 1992, and Casper and Chandler 1995, as well as an internal PCPC document and McCullough in 1996; is that right? A. My understanding that there was concern about talcum powder on condoms is

Judith K. Wolf, M.D.

Page 18 Page 20 1 document and the McCullough document. 1 directly talk about ovarian cancer, but the 2 Q. Have you reviewed the 2 fact that the powder causes inflammation 3 3 would lead me to be concerned about that. epidemiology as it relates to whether or not 4 there is an increased risk for ovarian cancer 4 Q. Okay. And we're going to talk 5 as a result of talc-dusted condoms? 5 about inflammation. But you cited this Kang 6 MS. O'DELL: Object to the 6 paper for the proposition that concerns were 7 7 raised in the medical literature regarding form. 8 A. The papers, the Kang, the 8 ovarian cancer for talc being used on 9 Griffin and the Casper paper, that's part of 9 condoms. Does this paper speak to that in what they were looking at. 10 10 your mind, Doctor? 11 BY MS. BROWN: 11 MS. O'DELL: Object to the 12 Q. And are you familiar with what 12 form, asked and answered. the conclusion of the body of studies looking 13 13 A. It specifically talks about at talc-dusted condoms in ovarian cancer 14 14 inflammation from this, which inflammation is 15 conclude? 15 related to ovarian cancer. 16 MS. O'DELL: Dr. Wolf, if BY MS. BROWN: 16 you -- you have your records here. If 17 17 Q. Is it your understanding, you'd like to look at them, you're 18 18 Doctor, that all inflammation leads to 19 certainly welcome to do that. 19 ovarian cancer? THE WITNESS: Let me get that. 20 20 A. It's my understanding, from 21 BY MS. BROWN: reviewing the literature and my own knowledge 21 2.2 Q. Doctor, if you would, just 22 from practicing GYN oncology and doing the 23 identify the document you're looking at for research in it over the years, is that it's 23 24 us on the record. more the concern of chronic inflammation 24 Page 19 Page 21 1 A. So I'm looking at the Kang, versus acute inflammation. 2 Griffin and Ellis paper right now. 2 When I look at the pathology of 3 3 Okay. Great. ovarian tumors, sometimes we see a lot of 4 4 (Witness reviews document.) chronic, sometimes we see a mix of chronic 5 5 Now I'm looking at the Casper and acute inflammation, sometimes you don't A. 6 6 see inflammation. That doesn't mean it's not paper. 7 BY MS. BROWN: 7 there; it just means it's not there in the 8 8 slide that you're looking at. But in Q. And before we move the -- move 9 from the Kang paper, Doctor, is there 9 general, more concern about chronic 10 anything in the Kang paper that informs your 10 inflammation. view about whether or not there's an 11 Because, Doctor, you would 11 12 12 agree, that you can certainly have increased risk of ovarian cancer with 13 13 inflammation that does not cause cancer, talc-dusted condoms? 14 right? 14 This paper is just looking at 15 the pathologic changes from talc powder on 15 MS. O'DELL: Object to the 16 gloves or condoms and is looking at 16 form. 17 pathologic changes in the intraabdominal 17 Inflammation itself doesn't 18 cavity. It doesn't specifically look at the 18 always cause cancer. However, inflammation 19 risk of ovarian cancer. 19 has been correlated with the development of 20 Multiple other papers, both 20 ovarian cancer in multiple studies, and since 21 prior and subsequent to this, though, 21 the '30s, it's been suggested in the 22 indicate that inflammation is an important 22 implication of all cancers -- or many cancers 23 part in the development of ovarian cancer, 23 anyway. I'll stop there. 24 and so it does -- this paper does not 24

	Page 22		Page 24
1	BY MS. BROWN:	1	BY MS. BROWN:
2	Q. Would you agree, Doctor, that	2	Q. Just for the record, Doctor,
3	the inflammation that was being caused by	3	the lawyer for the plaintiffs has asked that
4	powders on surgical gloves was not	4	you be able to look at the transcript of my
5	inflammation that was was suspected of	5	questions and your answers, to assist you
6	leading to cancer?	6	with your testimony under oath here today; is
7	MS. O'DELL: Object to the	7	that right?
8	form.	8	MS. O'DELL: No, actually,
9	A. I can't I don't know that I	9	she's she's had it there, not to
10	can say that, because if there's deposits of	10	assist her, but just to make sure
11	talc from the surgical gloves into the	11	she's read the understood the
12	abdominal cavity and it stays there because	12	question correctly. I'll put it that
13	it's not dissolved, that can lead to chronic	13	way. You can answer.
14	inflammation.	14	BY MS. BROWN:
15	BY MS. BROWN:	15	Q. Just for the record, you'll be
16	Q. Do you have any can you cite	16	looking at the realtime questions and answers
17	any evidence in the medical literature of	17	and testifying here today; is that right?
18	talc from surgical gloves causing a	18	A. That's my understanding, yes.
19	procancerous inflammatory response?	19	So now I'm going to have to ask
20	MS. O'DELL: Object to the	20	you to repeat the question.
21	form.	21	Q. Fair enough, Doctor. We were
22	A. Can you define for me what you	22	talking a little bit about talcum powder on
23	mean by a "procancer inflammatory response"?	23	surgical gloves. Do you remember that?
24	BY MS. BROWN:	24	A. Yes.
	Page 23		Page 25
1		1	
1	Q. Sure. Can you cite us any evidence in the medical literature that talc	1	Q. And is it your opinion that talcum powder that was used on surgical
2 3	from surgical gloves led to chronic	2 3	gloves could lead to cancer?
4	inflammation that caused cancer.	4	A. It's my opinion that talcum
5	MS. O'DELL: Object to the	5	powder generally has a concern for
6	form.	6	carcinogenesis, and because it was known to
7	A. I can cite literature that talc	7	cause inflammation in adhesions, it has been
8	from surgical gloves causes inflammation and	8	removed from surgical gloves and from
9	there is the concern that it leads to cancer.	9	condoms.
10	BY MS. BROWN:	10	Q. And what are you relying on for
11	Q. Okay. And for the proposition,	11	your understanding that dusting powders were
12	the second part of what you're testifying	12	removed from surgical gloves because of a
13	about, the concern that surgical gloves were	13	concern for cancer?
14	causing, not just granulomas or adhesions or	14	A. I believe that we've already
15	foreign body reactions, but cancer, but what	15	talked about that, the PCPC report that's
16	literature are you relying on for that	16	referenced on page 5 in my report.
17	proposition?	17	Q. Okay. So that's an internal
18	MS. O'DELL: Object to the	18	company document that you cite in connection
19	form. Excuse me just for a minute.	19	with condoms, right?
20	Micheal, would you make the screen	20	A. Yes.
21	I don't know how that	21	Q. Okay. And so my question was a
22	THE WITNESS: So I can see it.	22	little bit different, which is, what
1.1.			mile on annerone, willou ib, willet
		23	scientific literature are you relying on to
22 23 24	MS. O'DELL: Yes.	23 24	scientific literature are you relying on to support your opinion that dusting powder on

	Page 26		Page 28
1	surgical gloves can lead to cancer?	1	A. So the studies suggest or
2	MS. O'DELL: Object to the	2	show inflammation after talcum powder on
3	form.	3	or tale, talcum powder product on surgical
4	A. I'm going to give you the same	4	gloves, dusting powder, and therefore it was
5	answer that I think I've given before is	5	taken off the market. I am not aware of a
6	that, the concern is that dusting powder on	6	study where talcum-dusted, dusting powdered
7	surgical gloves has been shown to cause	7	gloves was used to see if it caused cancer.
8	inflammation and then that inflammation can	8	I believe that would be unethical. And so
9	lead to cancer.	9	the concern that there is inflammation was
10	BY MS. BROWN:	10	enough that that was pulled off the market.
11	Q. And my question's just a little	11	Q. Okay. And when you talk about
12	bit different, which is, I'm asking you to	12	"unethical," you're talking about running a
13	identify the scientific literature on which	13	randomized, controlled clinical trial, right?
14	you rely for that opinion, and "that opinion"	14	A. A prospective study of any
15	being that powders on surgical gloves can	15	kind.
16	cause cancer?	16	Q. Sure. And certainly it would
17	MS. O'DELL: Object to the	17	not be unethical to look at people who have
18	form, asked and answered. That's	18	had operations with surgical gloves to study
19	probably the third time the question's	19	this issue, correct?
20	been repeated.	20	MS. O'DELL: Object to the
21	Dr. Wolf, you're welcome to	21	form.
22	respond to the question.	22	A. So you're could you
23	A. I have the same answer that I	23	retrospectively look and see if people who
24	gave before. And powder has been removed	24	had surgery with powdered gloves got cancer
	Page 27		Page 29
1	from surgical gloves because of the concern	1	more than those that did not? Is that what
2	of adhesions and inflammation.	2	you're asking me? BY MS. BROWN:
3	BY MS. BROWN:	3 4	
4	Q. I understand that testimony	5	Q. Sure. What I'm trying to clear
5 6	perfectly. And maybe we're just not connecting, Dr. Wolf. I understand your	6	up is, you didn't mean to suggest this is an area of science that cannot be studied.
7	opinion, and what I'm asking is, for the	7	Fair?
8	scientific support for that opinion. And so	8	MS. O'DELL: Object to the
9	what information are you relying on that	9	form.
10	dusting powders on surgical gloves can cause	10	A. My suggestion would be that it
11	cancer?	11	would be an area of study that would be
12	MS. O'DELL: Object to the	12	challenging to study. I'm not saying it
13	form, asked and answered the sixth	13	couldn't be. I'm saying it could be
14	time.	14	challenging.
15	A. My understanding is what you're	15	BY MS. BROWN:
16	asking me is, can I cite you a paper that	16	Q. Have you reviewed, in
17	says that dusting powder on surgical gloves	17	connection with your opinions in this case,
ı <i>- '</i>	causes cancer?	18	the reasoning of the FDA when they banned
18		1 - 5	
18 19		19	nowders on surgical gloves?
19	BY MS. BROWN:	19 20	powders on surgical gloves? A. I don't recall that I have.
19 20	BY MS. BROWN: Q. My question to you is, what is	20	A. I don't recall that I have.
19 20 21	BY MS. BROWN: Q. My question to you is, what is the scientific support, what articles in the	20 21	A. I don't recall that I have.Q. Are you aware of whether or not
19 20 21 22	BY MS. BROWN: Q. My question to you is, what is the scientific support, what articles in the scientific literature, what studies have you	20	A. I don't recall that I have. Q. Are you aware of whether or not the FDA made a determination about whether or
19 20 21	BY MS. BROWN: Q. My question to you is, what is the scientific support, what articles in the	20 21 22	A. I don't recall that I have.Q. Are you aware of whether or not

	Page 30		Page 32
1	cancer?	1	to answer a question and pulled it today
2	A. I don't recall.	2	or or gave it today because they actually
3	Q. Do you consider the FDA to be a	3	use very similar methods.
4	reliable public health authority?	4	Q. Do you consider the
5	MS. O'DELL: Object to the	5	International Agency on the Research of
6	form.	6	Cancer to be a respected public health
7	A. I consider that the FDA does	7	authority?
8	its best to be a reliable health authority.	8	A. I do.
9	The FDA, or any agency, is not without the	9	Q. Do you look to the research
10	ability to make a wrong decision or a	10	that the scientists at IARC do, when
11	decision that they later change.	11	considering your own evaluation of scientific
12	BY MS. BROWN:	12	theories?
13	Q. Do you consider the work that	13	A. I do.
14	scientists at the FDA do in connection with	14	Q. Do you think that IARC is
15	public health issues, to be important to	15	generally an impartial body that endeavors to
16	consider in forming your opinions regarding	16	do the best research it can on cancer?
17	scientific theories?	17	A. I do.
18	MS. O'DELL: Object to the	18	Q. And have you considered IARC's
19	form.	19	conclusions as it relates to the opinions
20	A. I think it's a piece of	20	that you've provided in your report, your MDL
21	information to consider.	21	report?
22	BY MS. BROWN:	22	A. Yes. I considered them amongst
23	Q. And as it relates to your	23	many things.
24	opinion about dusting powders on surgical	24	Q. Sure. Is there anything
	Page 31		Page 33
1	gloves, you have not had the opportunity to	1	different between the UpToDate source that
2	review the FDA's research on that score; is	2	you provided as Exhibit 2 and the preamble
3	that fair?	3	that you've directed us to on Exhibit 3?
4	A. That's correct.	4	MS. O'DELL: Object to the
5	Q. Another item, Doctor, that	5	form.
6	counsel for plaintiffs handed me before we	6	BY MS. BROWN:
7	began the deposition, I will mark as	7	Q. That wasn't a great question.
8	Exhibit 3, and it is the preamble to the IARC	8	Do you find that Exhibit 2, the UpToDate
9	monograph IARC monographs from the	9	summary of evidence-based medicine, is
10	evaluation of carcinogenic risk to humans.	10	generally in concert with the preamble to the
11	This is an amendment of January 2006.	11	IARC monographs?
12	(Deposition Exhibit 3 marked	12	A. I think in general, it is. I
13	for identification.)	13	think that the UpToDate evidence-based
14	BY MS. BROWN:	14	medicine article is something that I as a MD,
15	Q. I can hand you the copy we've	15	a clinician, a practicing doctor, this is how
16	marked. Let me know first of all, when	16	I think about questions. How IARC thinks
4 -	did you review the preamble, Doctor?	17	about it may not be exactly the same, but the
17	A. When I looked at the IARC	18	general principles are the same.
17 18	71. When I looked at the 17 fixe	1 10	Q. Is UpToDate a peer-reviewed
	monographs more than a year ago, I read the	19	
18		20	publication, do you know, Doctor?
18 19	monographs more than a year ago, I read the	20 21	
18 19 20	monographs more than a year ago, I read the whole thing, but this preamble specifically I	20 21 22	publication, do you know, Doctor? A. It is a peer-reviewed publication. I would say it's it is.
18 19 20 21	monographs more than a year ago, I read the whole thing, but this preamble specifically I re-reviewed a few days ago when I pulled the	20 21	publication, do you know, Doctor? A. It is a peer-reviewed

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	Page 34		Page 36
1	UpToDate articles?	1	A. That's correct.
2	A. I don't know their peer review	2	Q. So as it relates to the
3	process. I've never put any article into	3	opinions in your report, dated November 16,
4	UpToDate. So I don't understand I don't	4	2018, the Saed manuscript that we've marked
5	know the details of it.	5	as Exhibit 4, did not inform those opinions;
6	Q. Okay. What basis do you have	6	is that fair?
7	for saying that the UpToDate information	7	A. That's correct.
8	you've provided as Exhibit 2 is peer	8	MS. O'DELL: Object to the
9	reviewed?	9	form.
10	A. Well, it's my understanding	10	A. I had an abstract that has some
11	that it is. Like any article that's	11	of this data that had been accepted to the
12	published in the medical literature, there's	12	SGO meeting for this year, but I did not have
13	usually some kind of reviewed process, where	13	the entire report.
14			BY MS. BROWN:
	the editor receives it and asks a panel of	14	
15	experts to comment on it.	15	Q. The next piece of information
16	Q. Okay. But this UpToDate	16	that counsel for plaintiffs provided, is a
17	information, that's not published in a	17	list of your invoices.
18	medical journal, right?	18	(Deposition Exhibit 5 marked
19	A. It's published online.	19	for identification.)
20	Q. Right.	20	BY MS. BROWN:
21	A. As many medical literature now	21	Q. Did you type these invoices,
22	is published online, not in a hard journal.	22	Dr. Wolf?
23	Q. Okay. But to be fair, you're	23	A. Yes.
24	not aware of whether or not the information	24	Q. Okay. And so it looks like
	Page 35		Page 37
1	you've provided as Exhibit 2 has gone through		
_	you've provided as Extribit 2 has gone through	1	there's actually a little different format
2		1 2	there's actually a little different format between the first invoice, which appears to
	the formal peer-reviewed process, as we know it, as it relates to medical journals?		between the first invoice, which appears to
2	the formal peer-reviewed process, as we know it, as it relates to medical journals?	2	between the first invoice, which appears to be January 2017, and later invoices; is that
2 3	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the	2 3	between the first invoice, which appears to be January 2017, and later invoices; is that right?
2 3 4	the formal peer-reviewed process, as we know it, as it relates to medical journals?	2 3 4	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please?
2 3 4 5	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the form, misstates her testimony. A. I don't understand I don't	2 3 4 5	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please? Q. Yeah, absolutely. I only have
2 3 4 5 6 7	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the form, misstates her testimony. A. I don't understand I don't know the details of their peer review	2 3 4 5 6 7	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please? Q. Yeah, absolutely. I only have one copy, so we'll have to share.
2 3 4 5 6	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the form, misstates her testimony. A. I don't understand I don't know the details of their peer review process.	2 3 4 5 6	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please? Q. Yeah, absolutely. I only have one copy, so we'll have to share. A. This is me. I typed this.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the form, misstates her testimony. A. I don't understand I don't know the details of their peer review process. BY MS. BROWN: Q. Fair enough. Counsel for the plaintiff also provided us with a manuscript, which we'll mark as Exhibit 4. (Deposition Exhibit 4 marked for identification.) BY MS. BROWN: Q. And this is a manuscript, one of the coauthors is Dr. Saed. Can you tell me, Doctor, when you reviewed the manuscript that we've marked as Exhibit 4? A. I received this manuscript and reviewed it on Friday, whatever date that was. I think the 4th of January.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please? Q. Yeah, absolutely. I only have one copy, so we'll have to share. A. This is me. I typed this. Q. Okay. MS. O'DELL: We'll just say, for the record, the invoice in the form was done for purposes of my office paying it. So that's the format we use. But Dr. Wolf, you can explain how you conveyed your hours. A. Yes. I mean, this is how I sent them every time. BY MS. BROWN: Q. Okay. A. In an e-mail like this. I this might be attached to my payment, but I
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the formal peer-reviewed process, as we know it, as it relates to medical journals? MS. O'DELL: Object to the form, misstates her testimony. A. I don't understand I don't know the details of their peer review process. BY MS. BROWN: Q. Fair enough. Counsel for the plaintiff also provided us with a manuscript, which we'll mark as Exhibit 4. (Deposition Exhibit 4 marked for identification.) BY MS. BROWN: Q. And this is a manuscript, one of the coauthors is Dr. Saed. Can you tell me, Doctor, when you reviewed the manuscript that we've marked as Exhibit 4? A. I received this manuscript and reviewed it on Friday, whatever date that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	between the first invoice, which appears to be January 2017, and later invoices; is that right? A. Can I see those, please? Q. Yeah, absolutely. I only have one copy, so we'll have to share. A. This is me. I typed this. Q. Okay. MS. O'DELL: We'll just say, for the record, the invoice in the form was done for purposes of my office paying it. So that's the format we use. But Dr. Wolf, you can explain how you conveyed your hours. A. Yes. I mean, this is how I sent them every time. BY MS. BROWN: Q. Okay. A. In an e-mail like this. I

10 (Pages 34 to 37)

	Page 38		Page 40
1	few follow-up questions, if I can grab that	1	invoices that Dr. Wolf sent to Beasley
2	back from you. As I understand it, Dr. Wolf,	2	Allen. For the record, what we have
3	the very first page of Exhibit 5, which is	3	are four additional pages of
4	entitled "Judith Wolf, Medical Expert Hours,"	4	Exhibit 5, which appear to be have
5	January 2017, at \$600 an hour, that's a	5	been generated by Beasley Allen. So
6	document you typed. Fair?	6	we'll request the underlying invoices
7	A. That's correct.	7	that came from the doctor.
8	Q. Okay. And for each subsequent	8	MS. O'DELL: Fair enough.
9	invoice, you typed a document similar to the	9	MS. BROWN: Thank you.
10	first page of Exhibit 5. True?	10	MS. O'DELL: I would just note
11	A. Yes.	11	for the record, just so there's no
12	Q. Okay. And the remaining pages	12	
13	of Exhibit 5 have sort of a a different		suggestion otherwise, those are
		13	contemporaneously provided. There's
14	format. Would you agree?	14	no generation of that in conjunction
15	A. The hours look the same, but	15	with this deposition. So I'm happy to
16	I mean the format of the hours look the same,	16	provide
17	but the invoice at the top, no yes, that	17	MS. BROWN: And to be fair, I
18	looks different.	18	don't mean to suggest anything
19	Q. Right. And I'm not trying to	19	untoward.
20	be tricky, but you didn't type everything	20	MS. O'DELL: I want the record
21	after page 1 of Exhibit 5; is that fair?	21	to be clear.
22	MS. O'DELL: What I'm	22	MS. BROWN: As do we.
23	conveying what I said.	23	MS. O'DELL: So I will happy
24	MS. BROWN: Let's get an answer	24	to ask my office for the other
	Page 39		Page 41
1	and then I'm happy to have you make	1	documents.
2	the statement for the record. I just	2	MS. BROWN: Terrific. And so
3	want an answer to that question.	3	we'll request the original invoices
4	MS. O'DELL: That's fair. You	4	that came from Dr. Wolf.
5	can answer the question.	5	BY MS. BROWN:
6	A. I didn't type the other ones.	6	
			O. A couple of questions.
/	MS O'DELL: So the invoice was	7	Q. A couple of questions,
7 8	MS. O'DELL: So the invoice was	7 8	Doctor
8	prepared after the hours were	8	Doctor MS. O'DELL: There weren't
8 9	prepared after the hours were submitted to my office for purposes of	8	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made
8 9 10	prepared after the hours were submitted to my office for purposes of facilitating payment. So the data	8 9 10	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made your statement, but that's not what
8 9 10 11	prepared after the hours were submitted to my office for purposes of facilitating payment. So the data to be clear, the data that was	8 9 10 11	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made your statement, but that's not what they were.
8 9 10 11 12	prepared after the hours were submitted to my office for purposes of facilitating payment. So the data to be clear, the data that was provided was from Dr. Wolf.	8 9 10 11 12	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made your statement, but that's not what they were. MS. BROWN: We're on the same
8 9 10 11 12 13	prepared after the hours were submitted to my office for purposes of facilitating payment. So the data to be clear, the data that was provided was from Dr. Wolf. MS. BROWN: Understood.	8 9 10 11 12 13	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made your statement, but that's not what they were. MS. BROWN: We're on the same page.
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8 9 10 11 12 13 14 15 16 17 18 19 20 21	prepared after the hours were submitted to my office for purposes of facilitating payment. So the data to be clear, the data that was provided was from Dr. Wolf. MS. BROWN: Understood. BY MS. BROWN: Q. When you invoice the lawyers at Beasley Allen, do you send a document that looks like page 1 of Exhibit 5? A. Yes. Q. Okay. And have you done that for every invoice that you've submitted through your work on this matter?	8 9 10 11 12 13 14 15 16 17 18 19 20 21	Doctor MS. O'DELL: There weren't invoices. Fair enough. You've made your statement, but that's not what they were. MS. BROWN: We're on the same page. MS. O'DELL: Not maybe maybe we're not. But anyway, we will I will ask for whatever the list was that was originally received. BY MS. BROWN: Q. Now, Dr. Wolf, the first document we have in Exhibit 5, includes the hours that you billed to Beasley Allen for

11 (Pages 38 to 41)

	Page 42		Page 44
1	you have here is for a one and a half hour	1	know. I know that they both have lived in
2	meeting with Margaret Thompson. True?	2	Austin for a long time.
3	A. Yes.	3	BY MS. BROWN:
4	Q. Who is Margaret Thompson?	4	Q. When did this conversation take
5	A. Margaret Thompson is one of the	5	place?
6	attorneys for Beasley Allen.	6	A. I don't remember. Sometime
7	Q. Okay. And how is it and	7	before January of 2017, but I don't remember
8	Ms. Thompson's here today; is that right?	8	the date. And it had to happen after 2015,
9	A. Yes. She's sitting right	9	because I didn't meet her until then, so
10	there.	10	sometime in that two-year period.
11	Q. And how is it that you came to	11	Q. Okay. And what did she tell
12	meet Ms. Thompson?	12	you about the question of talc and ovarian
13	A. So one of my neighbors, her	13	cancer?
14	name is Ali Gallagher, lives in the same	14	A. She was
15	building as I do. She is an attorney and	15	MS. O'DELL: Are you referring
16	also a nurse practitioner by training. And I	16	to Ms. Gallagher?
17	met her at a social setting in the lobby of	17	MS. BROWN: Yeah. Thank you.
18	my building. We have happy hours on Fridays.	18	BY MS. BROWN:
19	And we sort of became friendly and talked and	19	Q. I want to talk a little bit
20	then we became friends after that. She knows	20	about the conversation with Ms. Gallagher.
21	what I do for a living. I'm a gynecologic	21	A. Yeah.
22	oncologist and take care of women with	22	Q. As I understand it, this was
23	ovarian cancer.	23	the first conversation you had regarding this
24	And one day we were talking	24	potential expert witness work; is that right?
	Page 43		Page 45
1	about work, because she has a medical	1	A. Yes.
2	background and lots of people ask me about	2	Q. Okay.
3	work, even if they don't. And we came about	3	A. So the conversation again,
4	talk she may have asked me, do I know	4	the conversation happened more than two years
5	anything about talc and ovarian cancer, and I	5	ago. My recollection was she asked me did I
6	said I was aware of articles about the risk	6	know anything about the risk of ovarian
7	of talcum powder and ovarian cancer, and she	7	cancer in talcum powder use, and then we
8	mentioned that she had a friend, a colleague,	8	started talking about it and I told her I
9	who was working on a case. And I said I	9	knew a little, I was aware of some
10	would be interested in becoming more	10	epidemiologic data suggesting it. And she
11	involved, in learning more about it, so she	11	said she was asking because she had she
12	introduced us.	12	knew that there was some litigation about it.
13	Q. To your knowledge, is	13	And I said, one of my concerns with ovarian
14	Ms. Gallagher an attorney at Beasley Allen?	14	cancer is there's very little we can do to
1 -	A. To my knowledge, she is not.	15	cure women. They present late, there's no
15	Q. To your knowledge, is she a	16	screening tests, the symptoms are nonspecific
16	•	l .	
16 17	plaintiffs' attorney?	17	and that if there's something that we can do
16 17 18	plaintiffs' attorney? A. To my knowledge, I don't really	18	to prevent it, it would be helpful. And the
16 17 18 19	plaintiffs' attorney? A. To my knowledge, I don't really know what kind of law she practices.	18 19	to prevent it, it would be helpful. And the conversation went on and she asked me would I
16 17 18 19 20	plaintiffs' attorney? A. To my knowledge, I don't really know what kind of law she practices. Q. Okay. And what is your	18 19 20	to prevent it, it would be helpful. And the conversation went on and she asked me would I be interested in talking to the people she
16 17 18 19 20 21	plaintiffs' attorney? A. To my knowledge, I don't really know what kind of law she practices. Q. Okay. And what is your understanding of how Ms. Gallagher knows	18 19 20 21	to prevent it, it would be helpful. And the conversation went on and she asked me would I be interested in talking to the people she knew who were involved in the case, and I
16 17 18 19 20 21	plaintiffs' attorney? A. To my knowledge, I don't really know what kind of law she practices. Q. Okay. And what is your understanding of how Ms. Gallagher knows Ms. Thompson?	18 19 20 21 22	to prevent it, it would be helpful. And the conversation went on and she asked me would I be interested in talking to the people she knew who were involved in the case, and I said yes.
16 17 18 19 20 21	plaintiffs' attorney? A. To my knowledge, I don't really know what kind of law she practices. Q. Okay. And what is your understanding of how Ms. Gallagher knows	18 19 20 21	to prevent it, it would be helpful. And the conversation went on and she asked me would I be interested in talking to the people she knew who were involved in the case, and I

2 diagnostic company called Vermillion, and I 2 general	Page 48
2 diagnostic company called Vermillion, and I 2 general	s I treated. I would say that, in
	, my practice in the last five years
3 was doing some clinical medicine as locum 3 has been	n about a third ovarian cancer and
	0 percent endometrial cancer.
,	Prior to 2014, when I was
	ng full time GYN oncology, more than
	ent of my practice was ovarian cancer
	e patients came from around the country
	ne, specifically with that issue.
10 Indianapolis. 10 Q.	-
	you were practicing at MD Anderson?
	In Houston at MD Anderson and
	her health Banner MD Anderson in
14 Q. And what was the other location 14 Arizona	
15 where you performed 15 Q.	
7 -	aderson to go to Vermillion, correct?
17 Indianapolis. 17 A.	
	MD Anderson in Arizona. I left
	a to go to Vermillion.
20 A. On staff at the hospital, yes. 20 Q.	_
	nt to another start-up?
	Provista Diagnostics, yes.
22 aware of your clinical practice as well? 22 A. 23 A. Yes. 23 O.	Did you continue to treat
	s while you were at Provista?
24 Q. Okay. And how many patients 24 patients	s willie you were at Frovista?
Page 47	Page 49
1 would you say you were treating at that time? 1 A.	I did.
2 A. You know, I was only 2 Q.	At the same two locations?
3 intermittently treating, so I can't really 3 A.	I don't believe I covered any
4 give you a number. I don't know. 4 more in	Atlanta, because the need was greater
5 Q. Did you have set office hours 5 in India	anapolis and, in fact, the last year
6 or hospital hours during that time period? 6 that I w	vas working at Provista, I was
7 A. In Atlanta, I covered probably 7 covering	ng one week a month in Indiana.
8 three or four weeks a year when the doctors 8 Q.	In what states are you licensed
9 were on vacation. In Indianapolis, when I 9 to pract	tice medicine?
10 started, that's what I was doing. There was 10 A.	My active licenses are in
=	a, Georgia and Arizona.
12 one to cover. 12 Q.	And you no longer have an
13 Q. Fair to say clinical medicine 13 active l	license in Texas; is that right?
	That's correct.
14 was a small part of your practice during the 14 A.	Any other states that are no
14 was a small part of your practice during the 14 A. 15 time period you were at Vermillion? 15 Q.	active for you?
15 time period you were at Vermillion? 15 Q.	
15 time period you were at Vermillion? 15 Q.	Minnesota.
15 time period you were at Vermillion? 15 Q. 16 A. Yes. 16 longer	Minnesota. And then as I understand it,
15time period you were at Vermillion?15Q.16A. Yes.16longer17Q. Did you treat any ovarian17A.18cancer patients during the time period you18Q.	And then as I understand it,
15time period you were at Vermillion?15Q.16A. Yes.16longer17Q. Did you treat any ovarian17A.18cancer patients during the time period you18Q.	
15 time period you were at Vermillion? 16 A. Yes. 16 longer 17 Q. Did you treat any ovarian 18 cancer patients during the time period you 19 worked for Vermillion? 19 you lef 20 A. Yes. 20 A.	And then as I understand it, the Provista in about January of 2017?
15 time period you were at Vermillion? 16 A. Yes. 16 longer 17 Q. Did you treat any ovarian 18 cancer patients during the time period you 19 worked for Vermillion? 19 you lef 20 A. Yes. 20 A.	And then as I understand it, it Provista in about January of 2017? No, I left Provista just my
15 time period you were at Vermillion? 16 A. Yes. 17 Q. Did you treat any ovarian 18 cancer patients during the time period you 19 worked for Vermillion? 19 you lef 20 A. Yes. 21 Q. About how many patients would 22 you estimate you treated during that time 22 Q.	And then as I understand it, it Provista in about January of 2017? No, I left Provista just my last day was October 1st of 2018.

	Page 50		Page 52
1	you were working at Provista; is that right?	1	of your time would you say is devoted to
2	A. That's correct.	2	treating patients at the Community Health
3	Q. Okay. Did you do any of	3	Network?
4	work any expert work for plaintiffs'	4	A. 60.
5	lawyers in the talc litigation while you were	5	MS. O'DELL: Just for
6	working at Vermillion?	6	clarification, are you asking for her
7	A. Let me think about that. Yes,	7	time she's working at Community Health
8	I believe I did.	8	in Indianapolis, what percentage of
9	Q. Did you disclose to Vermillion	9	her time is devoted to treating
10	your work for plaintiffs' lawyers in the talc	10	patients, or are you asking overall?
11	litigation?	11	It was just confusing.
12	MS. O'DELL: If you did if	12	MS. BROWN: So the question
13	you did any work during that time	13	I'm looking at the real time. The
14	period.	14	question said, "devoted to treating
15	A. Yeah, I don't recall. I don't	15	patients at Community Health Network."
16	recall.	16	MS. O'DELL: Okay. Thank you.
17	BY MS. BROWN:	17	BY MS. BROWN:
18	Q. Do you recall if Vermillion had	18	Q. Doctor, the final document that
19	a policy about its officials doing expert	19	the lawyer for the plaintiffs, Ms. O'Dell
20	witness work?	20	gave me this morning, is we will mark as
21	A. My recollection was that they	21	Exhibit 6, which appears to be an updated CV
22	did not have a policy.	22	for you, dated January 4th, 2017.
23	Q. And what were the circumstances	23	(Deposition Exhibit 6 marked
24	that led to you leaving Provista in October	24	for identification.)
	Page 51		Page 53
1	of 2018?	1	BY MS. BROWN:
2	A. Provista? I could see that the	2	Q. Do you have a copy in front of
3	company was having trouble getting funding,	3	you?
4	and, in fact, on October 1st, 2018, the	4	A. Yes, I do.
5	company shut down. And so I had already been	5	Q. So the copy that was attached
6	looking and I knew that Indiana wanted me to	6	to your report, I believe was dated 2016.
7	come there, so	7	A. Yes.
8	Q. So when you say "the company	8	Q. Now, why would that be?
9	shut down," what do you mean by that?	9	A. Because from the time I started
10	A. They dissolved.	10	working with a company actually, I haven't
11	Q. Was there any investigation	11	had an assistant to help me update it and I'm
12	into the company that led to the dissolution?	12	not I haven't been good at keeping it
13	A. No, it was just ran out of	13	updated.
14	money, couldn't find new investors.	14	Q. Well, here's what I'm trying to
15	Q. And since October of 2018,	15	understand. We got Exhibit 6, which is dated
16	you've been working at the Indiana	16	January of 2017, correct?
17	Indianapolis location?	17	A. Oh, it should be 2018. That's
18	A. Yes.	18	my see, I'm not a good typist.
19	Q. Okay. What's the name of that?	19	Q. Okay. So the correct date of
20	A. Community Health Network.	20	Exhibit 6 is really January 4th, 2018?
21	Q. And you're a physician there	21	A. That's correct.
22	part-time; is that right?	22	MS. O'DELL: Should it be 2019?
	A. That's correct.	23	A. '19. '19.
23		1	11. 17. 17.
23 24	Q. And how many what percentage	24	11. 15. 15.

	Page 54		Page 56
1	BY MS. BROWN:	1	A. In the popular press, I have
2	Q. Okay. I think we're all on the	2	talked about the use of birth control pills
3	same page now. All right. And you've	3	to reduce the risk of ovarian cancer, I've
4	updated this with additional employment that	4	talked about the symptoms of ovarian cancer,
5	you've had	5	I've talked about some of my research and
6	A. Yes.	6	treatment of ovarian cancer. I don't recall
7	Q since the time of your	7	that I specifically talked about the risk of
8	last	8	ovarian cancer.
9	A. And a few publications that	9	Q. Do you recall have you ever
10	weren't on there.	10	spoken have you ever gone on any strike
11	Q. Have you ever just to speak	11	that.
12	generally about your resumé, Doctor, have you	12	Have you ever done any news
13	ever published any peer-reviewed article	13	interviews in which you have indicated your
14	regarding talcum powder and ovarian cancer?	14	opinion in this case, which is that you
15	A. No.	15	believe that talc talcum powder causes
16	Q. Have you ever given any	16	ovarian cancer?
17	presentation regarding talcum powder and	17	A. I have not. But until I
18	ovarian cancer?	18	started reviewing all the literature for this
19	A. No.	19	case, I was generally aware of some
20	Q. Have you ever been invited to	20	epidemiologic studies, but I wasn't as
21	speak at any conference that dealt with	21	convinced after reviewing the entire body of
22	issues regarding talcum powder and ovarian	22	literature that I was able to review, that
23	cancer?	23	talcum powder causes ovarian cancer in some
24	A. No.	24	women and puts all women who use it at risk
	Page 55		Page 57
1	Q. I've seen over the years,	1	for ovarian cancer.
2	Doctor, you've done some popular press and	2	Q. Prior to being hired as an
3	news segments; is that right?		
	6 , 6	3	expert witness for plaintiff lawyers in the
4	A. Yes.	3 4	expert witness for plaintiff lawyers in the talcum powder litigation, you, Dr. Wolf, were
4 5			talcum powder litigation, you, Dr. Wolf, were
	Q. Have you ever given any news	4	ž , , , , , , , , , , , , , , , , , , ,
5		4 5	talcum powder litigation, you, Dr. Wolf, were not as convinced that talcum powder causes
5 6	Q. Have you ever given any news interviews regarding talcum powder and	4 5 6	talcum powder litigation, you, Dr. Wolf, were not as convinced that talcum powder causes ovarian cancer. True? MS. O'DELL: Object to the
5 6 7	Q. Have you ever given any news interviews regarding talcum powder and ovarian cancer?	4 5 6 7	talcum powder litigation, you, Dr. Wolf, were not as convinced that talcum powder causes ovarian cancer. True? MS. O'DELL: Object to the form, misstates her testimony.
5 6 7 8	Q. Have you ever given any news interviews regarding talcum powder and ovarian cancer?A. No.	4 5 6 7 8	talcum powder litigation, you, Dr. Wolf, were not as convinced that talcum powder causes ovarian cancer. True? MS. O'DELL: Object to the form, misstates her testimony.
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5 6 7 8 9	 Q. Have you ever given any news interviews regarding talcum powder and ovarian cancer? A. No. Q. You have, however, been an advocate for women's health issues over the 	4 5 6 7 8 9	talcum powder litigation, you, Dr. Wolf, were not as convinced that talcum powder causes ovarian cancer. True? MS. O'DELL: Object to the form, misstates her testimony. A. Prior to being hired, I hadn't reviewed all the literature to be able to
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15 (Pages 54 to 57)

	Page 58		Page 60
1	brought that up was that, not to worry,	1	A. Twenty-four years.
2	talcum powder doesn't contain asbestos	2	Q. And for the 24 years that you
3	anymore and so that data is old and it	3	practiced as a gynecologic oncologist prior
4	doesn't matter.	4	to being hired by the plaintiffs' lawyers, it
5	After reviewing all the	5	was not your regular practice to ask your
6	literature and the information that I have	6	patients if they used talcum powder. True?
7	seen, I don't believe that's true anymore.	7	MS. O'DELL: Object to the
8	BY MS. BROWN:	8	form.
9	Q. You have formed the opinion	9	A. Prior to reviewing all the
10	that talcum powder causes ovarian cancer	10	literature and becoming convinced that it was
11	since being hired by the plaintiffs' lawyers	11	a concern, it was not my regular practice.
12	in the talcum powder litigation, correct?	12	BY MS. BROWN:
13	MS. O'DELL: Object to the	13	Q. And you keep answering the
14	form.	14	question by saying "prior to reviewing all
15	A. I want to think about how I	15	the literature." You reviewed all of the
16	want to answer that, because the question is	16	literature at the request of the plaintiffs'
17	a little confusing to me because I believe	17	lawyers, correct?
18	what I said was, until I was aware of all of	18	MS. O'DELL: Object to the
19	the literature and looked at it as a whole,	19	form, asked and answered.
20	all of the evidence, I hadn't formed the	20	A. I reviewed all the literature
21	opinion that talcum powder causes ovarian	21	when I got when I wanted to learn more
22	cancer. I knew there was data that suggests	22	about it, to become involved with deciding on
23	that talcum powder product increases the risk	23	my own, whether this was something that I
24	of ovarian cancer and once I had all the	24	should be concerned about. And if I reviewed
	Page 59		Page 61
1	information, I fully believe it. And now I	1	the literature and felt there was no concern,
_			the mediator unit for the media to the contestin,
2	tell all my patients, whether they have	2	I would have a different opinion.
3	tell all my patients, whether they have ovarian cancer or not, not to use it or to	2 3	•
			I would have a different opinion.
3	ovarian cancer or not, not to use it or to	3	I would have a different opinion. BY MS. BROWN:
3 4	ovarian cancer or not, not to use it or to stop using it if they are. I tell all my	3 4	I would have a different opinion. BY MS. BROWN: Q. You reviewed all of the literature regarding talcum powder and ovarian cancer at the request of the
3 4 5	ovarian cancer or not, not to use it or to stop using it if they are. I tell all my friends and family the same thing.	3 4 5	I would have a different opinion. BY MS. BROWN: Q. You reviewed all of the literature regarding talcum powder and
3 4 5 6	ovarian cancer or not, not to use it or to stop using it if they are. I tell all my friends and family the same thing. BY MS. BROWN:	3 4 5 6	I would have a different opinion. BY MS. BROWN: Q. You reviewed all of the literature regarding talcum powder and ovarian cancer at the request of the
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	Page 62		Page 64
1	plaintiffs' lawyers, correct?	1	health publications and went on TV shows,
2	A. I would say the date that I was	2	like Dr. Oz. True?
3	convinced that talcum powder products cause	3	A. Yes.
4	ovarian cancer was after I reviewed all the	4	MS. O'DELL: Object to the
5	literature. Prior to that, I knew that there	5	form.
6	was some papers that suggested there was a	6	BY MS. BROWN:
7	risk, but I didn't review all the literature	7	Q. And during those 24 years, you
8	to formulate an opinion about it.	8	did not publish, write or speak about the
9	Q. And the reason that you	9	opinion that talcum powder causes ovarian
10	formulated an opinion by reviewing all of the	10	cancer, correct?
11	literature, was because you had been hired as	11	A. What I published was my
12	an expert witness by plaintiffs' lawyers.	12	research, which was not on talcum powder
13	True?	13	products and ovarian cancer. What I spoke
14	MS. O'DELL: Object to the	14	about was what I was asked to speak about,
15	form.	15	which was not talcum powder and ovarian
16	A. I'm confused with the question.	16	cancer. When I was on the public when I
17	Because	17	was on the television or in the news, there
18	BY MS. BROWN:	18	was specific questions that I was being asked
19	Q. Well, let me see if I can	19	to speak about. They were not talcum powder
20	orient you, Dr. Wolf. Here's what we're	20	and ovarian cancer.
21	trying to understand. I understand your	21	Q. But to be fair, some of the
22	testimony was that for about 24 years as a	22	questions you were asked about is, what
23	practicing gynecologic oncologist, the	23	increases a woman's risk for ovarian cancer,
24	potential association between talcum powder	24	right?
	Page 63		Page 65
1	and ovarian cancer was not something you	1	MS. O'DELL: Object to the
2	were, quote, focused on; is that right?	2	form.
3	MS. O'DELL: Object to the		
9		3	A. I don't remember the questions
4	form.	4	that I was asked about on Dr. Oz. I know
	form. A. It's not something that I was		that I was asked about on Dr. Oz. I know that the purpose for me to go on that was to
4	form. A. It's not something that I was researching.	4	that I was asked about on Dr. Oz. I know
4 5	form. A. It's not something that I was researching. BY MS. BROWN:	4 5	that I was asked about on Dr. Oz. I know that the purpose for me to go on that was to
4 5 6	form. A. It's not something that I was researching. BY MS. BROWN: Q. Okay. Nonetheless, you worked	4 5 6	that I was asked about on Dr. Oz. I know that the purpose for me to go on that was to talk about the reduction in the risk of
4 5 6 7 8 9	form. A. It's not something that I was researching. BY MS. BROWN: Q. Okay. Nonetheless, you worked as an advocate for women's health during	4 5 6 7	that I was asked about on Dr. Oz. I know that the purpose for me to go on that was to talk about the reduction in the risk of ovarian cancer by using birth control pills and I don't remember all of the questions. As far as I can recall, the other times I was
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17 (Pages 62 to 65)

	Page 66		Page 68
1	say earlier is, there were certain	1	Is there anything else that
2	documents that were requested through	2	you've brought with you today in response to
3	the notice. And just for the record,	3	our requests contained in Exhibit 1?
4	I wanted to state that plaintiffs	4	MS. O'DELL: Other than the
5	served objections to certain of those	5	notebooks she's brought for her
6	requests and we produced documents	6	reference materials?
7	here consistent with those objections.	7	A. No, I haven't I brought
8	MS. BROWN: Right. We're in	8	this it has my report and my reference
9	receipt of your objections.	9	list and my CV. These are all my references
10	BY MS. BROWN:	10	and all of that is contributing material.
11	Q. So Doctor, what let's mark	11	BY MS. BROWN:
12	your report as Exhibit 7.	12	Q. Okay. So for the record, let's
13	(Deposition Exhibit 7 marked	13	identify what you've just pointed out to us.
14	for identification.)	14	You have a small binder in front of you
15	BY MS. BROWN:	15	A. Yeah.
16	Q. And my question for you is	16	Q which appears to be tabbed.
17	that when's the first date by which you	17	Did you do that tabbing?
18	formed the opinions that are contained in	18	A. I did. And it just sort of
19	this report that we've marked as Exhibit 7?	19	says which section is which in my report.
20	MS. O'DELL: Object to the	20	Q. Do you have any notes in your
21	form.	21	report, other than the tabs?
22	A. I cannot recall the first date.	22	A. No.
23	BY MS. BROWN:	23	Q. Okay. And what else is
24	Q. Okay. At the time that you	24	contained in that binder?
	Page 67		Page 69
1	were approached by Ms. Gallagher in 2005, you	1	A. My CV and then this is a list
2			
	did not hold the opinion that talcum powder	2	•
3	did not hold the opinion that talcum powder causes ovarian cancer, correct?	2	of all of the contributing material.
	causes ovarian cancer, correct?		of all of the contributing material. Q. And then you have next to you
3		3	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said
3 4	causes ovarian cancer, correct? MS. O'DELL: Object to the	3 4	of all of the contributing material. Q. And then you have next to you
3 4 5	causes ovarian cancer, correct? MS. O'DELL: Object to the form.	3 4 5	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said contain the references in the report; is that
3 4 5 6	causes ovarian cancer, correct? MS. O'DELL: Object to the form. A. I didn't meet Ms. Gallagher	3 4 5 6	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said contain the references in the report; is that right?
3 4 5 6 7	causes ovarian cancer, correct? MS. O'DELL: Object to the form. A. I didn't meet Ms. Gallagher till 2015.	3 4 5 6 7	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said contain the references in the report; is that right? A. The references and also the
3 4 5 6 7 8	causes ovarian cancer, correct? MS. O'DELL: Object to the form. A. I didn't meet Ms. Gallagher till 2015. BY MS. BROWN:	3 4 5 6 7 8	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said contain the references in the report; is that right? A. The references and also the other articles that you were provided, the new are in these and then that's all the
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	causes ovarian cancer, correct? MS. O'DELL: Object to the form. A. I didn't meet Ms. Gallagher till 2015. BY MS. BROWN: Q. Correct. I misspoke. I'm sorry. A. And the question was, I did not hold the opinion that I had concerns about talcum powder uses in ovarian cancer and I had enough concerns that I was interested enough to become involved in learning more about it. Q. To close the loop, then, Doctor, on the requests we made in the deposition notice that we've marked as Exhibit 1, we've marked a number of documents that lawyers for the plaintiffs produced early this morning. We're aware of the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	of all of the contributing material. Q. And then you have next to you three larger binders, which I think you said contain the references in the report; is that right? A. The references and also the other articles that you were provided, the new are in these and then that's all the contributing material. Q. Okay. And so for the record, behind you there's probably another ten or 12 binders that you're suggesting contain the documents contained in listed in Exhibit B to your report? A. That's correct. Q. Okay. You didn't type Exhibit B to your report, did you, Doctor? A. I did not type it. Q. Do you know where Exhibit B to your report came from? A. The attorneys typed it up for

	Page 70		Page 72
1	Q. Okay. Did the attorneys	1	A. No.
2	provide you with all of the materials that	2	Q. Did you take any notes when you
3	are listed on Exhibit B?	3	were reviewing any of the materials cited in
4	A. No.	4	your report?
5	Q. Which of the materials on	5	A. I didn't take separate notes.
6	Exhibit B were provided by the attorneys?	6	What I did was, I started writing things down
7	A. I can't tell you. It's a mix	7	and used that as the draft of my report and
8	of what I provided them, what they provided	8	then just updated it every time I read more,
9	me, what I asked them to provide to me.	9	changed more, added, subtracted to it.
10	Q. Well, let's start by	10	Q. Take a look, if you would, at
11	understanding the difference between your	11	page 13 of Exhibit B. There are a number of
12	reference list on page 18 of your report and	12	entries that begin with the letters J&J. Do
13	then Exhibit B to your report. Can you	13	you see that?
14	explain to me the difference there?	14	A. I do.
15	A. The reference lists are	15	Q. What are those?
16	articles that I actually reference in my	16	A. Those are internal documents
17	report. And this is all the articles that	17	from J&J that were provided to me from the
18	I or pieces of information that I	18	plaintiffs' attorneys.
19	considered when drafting my report.	19	Q. And did you request internal
20	Q. Did you consider every piece of	20	documents be provided to you from the
21	information that's listed on the 28-page	21	plaintiffs' lawyers?
22	Exhibit B?	22	A. Some of them I might have
23	A. Yes.	23	requested and some of them were provided to
24	Q. Did you read every entry on the	24	me. But I can't tell you which is which by
	Page 71		Page 73
1	28-page Exhibit B?	1	looking at that list.
2	A. I did not read every word of	2	Q. In the normal course of your
3	every entry. Some of them I looked at a	3	practice as a gynecologic oncologist, do you
4	piece of it, if it was a reference from	4	review internal company documents in making
5	something else that I wanted to confirm.	5	medical decisions?
6	Some of it I looked at and set aside, didn't	6	A. I don't have access to them.
7			A. I don't have access to them.
,	feel like it was added additive or	7	MS. O'DELL: Object to the
8	feel like it was added additive or pertinent to what I was reviewing. And	7 8	
			MS. O'DELL: Object to the
8	pertinent to what I was reviewing. And	8	MS. O'DELL: Object to the form.
8 9 10 11	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the	8 9 10 11	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on
8 9 10	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way.	8 9 10	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair?
8 9 10 11 12 13	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these	8 9 10 11 12 13	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on
8 9 10 11 12 13 14	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a	8 9 10 11 12 13 14	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form.
8 9 10 11 12 13 14 15	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office?	8 9 10 11 12 13 14 15	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal
8 9 10 11 12 13 14 15	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both.	8 9 10 11 12 13 14 15 16	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents.
8 9 10 11 12 13 14 15 16	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard	8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN:
8 9 10 11 12 13 14 15 16 17	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit	8 9 10 11 12 13 14 15 16 17	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them,
8 9 10 11 12 13 14 15 16 17 18	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B?	8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right?
8 9 10 11 12 13 14 15 16 17 18 19 20	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B? A. Yes.	8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right? MS. O'DELL: Object to the
8 9 10 11 12 13 14 15 16 17 18 19 20 21	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B? A. Yes. Q. Okay. So you have 12 binders	8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right? MS. O'DELL: Object to the form.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B? A. Yes. Q. Okay. So you have 12 binders in hard copy?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right? MS. O'DELL: Object to the form. A. Well, I don't have access to
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B? A. Yes. Q. Okay. So you have 12 binders in hard copy? A. Yes.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right? MS. O'DELL: Object to the form.
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	pertinent to what I was reviewing. And but these are all of the things that I looked at in some way. Q. How did you maintain all of the documents contained at Exhibit B? And by that I mean, do you have all of these documents electronically or do you have a hard copy at your house or office? A. Both. Q. Okay. You have a hard copies of every document contained on Exhibit B? A. Yes. Q. Okay. So you have 12 binders in hard copy?	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. BY MS. BROWN: Q. So as part of your work as a treating physician, you don't rely on internal company documents. Fair? MS. O'DELL: Object to the form. A. I don't have access to internal company documents. BY MS. BROWN: Q. So you don't rely on them, right? MS. O'DELL: Object to the form. A. Well, I don't have access to

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	Page 74		Page 76
1	BY MS. BROWN:	1	Q. I want to know sitting here
2	Q. Do you have any so that	2	today, it's my opportunity to understand what
3	means you haven't used them in your practice	3	forms the basis of your opinions and I want
4	as a gynecologic oncologist, right?	4	know if there's information in an internal
5	MS. O'DELL: Object to the	5	Johnson & Johnson document that forms the
6	form.	6	basis of your opinion that talc causes
7	A. Not that I recall.	7	ovarian cancer.
8	BY MS. BROWN:	8	MS. O'DELL: Objection, asked
9	Q. And the 20-some-odd J&J	9	and answered.
10	documents you have listed here at Exhibit 13,	10	A. My opinion is not based on any
11	do you have any idea what percentage of the	11	one single document or any one single source
12	entire document production from J&J these 20	12	of documents. It's the whole of the
13	documents comprise?	13	documents that I reviewed.
14	A. Of all of J&J's internal	14	BY MS. BROWN:
15	documents? I don't.	15	Q. So what information do you rely
16	Q. Was it important to you, to	16	on from the whole of the 20 J&J documents you
17	consider the context of all of the internal	17	looked at?
18	documents you have cited at Exhibit 13?	18	MS. O'DELL: Objection,
19	MS. O'DELL: Object to the	19	mischaracterizes the witness's
20	form.	20	testimony.
21	A. Say that again.	21	A. So I'm going to say that this
22	BY MS. BROWN:	22	is my contributing materials list. It's not
23	Q. Was it important to you	23	even none of the those internal
24	first of all, did you request that the	24	documents are referenced in my in my
	Page 75		Page 77
1	lawyers give you some of these internal	1	opinion. So I don't know how else to answer
2	documents?	2	to you, other than to say I looked at all of
3	A. I don't recall specifically if	3	the evidence. The things that I felt were
4	I requested these or they gave them to me. I	4	important, I referenced in my opinion. I
5	just don't recall.	5	don't recall what's in all of those.
6	Q. Do internal J&J documents form	6	BY MS. BROWN:
7	the basis of your opinions in this	7	Q. So there are internal company
8	litigation?	8	documents listed on page 13 of Exhibit B, the
9	MS. O'DELL: Object to the	9	contents of which, sitting here today, you're
10	form.	10	unaware of; is that fair?
11	A. The basis of my opinion is the	11	MS. O'DELL: Object. That
12	review of everything that I looked at in	12	misstates her testimony.
13	total, not there isn't any one thing that	13	A. What I
14	forms the basis of my opinion. It's the	14	MS. O'DELL: Excuse me. Object
15	whole of the evidence.	15	to the form of the question.
16	BY MS. BROWN:	16	You may answer.
	Q. Okay. So identify for me what	17	A. What I said is, I can't recall
17	· · · · · · · · · · · · · · · · · · ·	18	what those individually are, sitting here
18	information in the internal Johnson & Johnson		
	information in the internal Johnson & Johnson documents you're relying on to form your	19	today. I could look at them if you'd like me
18			today. I could look at them if you'd like me to.
18 19	documents you're relying on to form your opinion. A. Well, these are in my	19 20 21	today. I could look at them if you'd like me
18 19 20	documents you're relying on to form your opinion. A. Well, these are in my contributing data lists, not in my reference	19 20 21 22	today. I could look at them if you'd like me to. BY MS. BROWN: Q. Well, I want you to do that if
18 19 20 21	documents you're relying on to form your opinion. A. Well, these are in my	19 20 21	today. I could look at them if you'd like me to. BY MS. BROWN:

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1 given to you by the plaintiffs' lawyers, we 2 can move on. But if there's something in the 3 20 documents that the plaintiffs' lawyers 4 have listed on page 13 of Exhibit B to your 5 report that forms the basis of your opinion, 6 I want to know what that is. 6 MS. O'DELL: Objection to the 8 form, asked and answered three times 9 now. 9 Q. Dr. Wolf, did you 10 A. The basis of my opinion is not 11 formed by any one document. 12 BY MS. BROWN: 13 Q. Is the basis of your opinion 14 formed, in part, by internal Johnson 15 MS. O'DELL: Object to the 16 MS. O'DELL: Object to the 17 form. 18 A. I would have to look at all of 19 those documents again to tell you if there 20 was something specifically in there and what 21 there's something specifically that formed my Page 79	ded to her able I need her to at were the evided to you by to the provided to
2 can move on. But if there's something in the 3 20 documents that the plaintiffs' lawyers 4 have listed on page 13 of Exhibit B to your 5 report that forms the basis of your opinion, 6 I want to know what that is. 7 MS. O'DELL: Objection to the 8 form, asked and answered three times 9 now. 10 A. The basis of my opinion is not 11 formed by any one document. 12 BY MS. BROWN: 13 Q. Is the basis of your opinion 14 formed, in part, by internal Johnson 15 MS. O'DELL: Object to the 16 form. 17 MS. O'DELL: Object to the 18 MS. O'DELL: Object to the 19 those documents again to tell you if there 20 was something specifically in there and what 21 the I just they're numbers to me. 22 Looking at them here, I don't recall that 23 what's in each one of those to tell you if 24 there's something specifically that formed my 2 previously they were provious because they weren't availate elsewhere. 3 because they weren't availate elsewhere. 4 because they weren't availate elsewhere. 5 because they weren't availate elsewhere. 6 MS. BROWN: Well, 6 say that, though. I need th testimony from her. 8 BY MS. BROWN: 10 J&J documents on page 13 pro plaintiffs' lawyers? 11 plaintiffs' lawyers? 12 MS. O'DELL: Object form. 13 form. 14 A. The documents were me by plaintiffs' lawyers. 15 BY MS. BROWN: 16 BY MS. BROWN: 17 Q. And are you can you us with an understanding of the the plaintiffs' lawyers employed which documents to select for my sked and answered. 20 MS. O'DELL: Object form, asked and answered. 21 MS. O'DELL: Object form, asked and answered. 22 A. I'm not sure what you asking.	I need her to at were the vided to you by to the provided to
4 have listed on page 13 of Exhibit B to your 5 report that forms the basis of your opinion, 6 I want to know what that is. 7 MS. O'DELL: Objection to the 8 form, asked and answered three times 9 now. 10 A. The basis of my opinion is not 11 formed by any one document. 12 BY MS. BROWN: 13 Q. Is the basis of your opinion 14 formed, in part, by internal Johnson 15 & Johnson documents? 16 MS. O'DELL: Object to the 17 form. 18 A. I would have to look at all of 19 those documents again to tell you if there 20 was something specifically in there and what 21 the I just they're numbers to me. 22 Looking at them here, I don't recall that 23 what's in each one of those to tell you if 24 there's something specifically that formed my 4 elsewhere. 5 MS. BROWN: 6 MS. BROWN: 7 testimony from her. 8 BY MS. BROWN: 9 Q. Dr. Wolf, did you 10 J&J documents on page 13 pro 11 plaintiffs' lawyers? 12 MS. O'DELL: Object 13 plaintiffs' lawyers? 14 A. The documents were 15 me by plaintiffs' lawyers. 16 BY MS. BROWN: 17 Q. And are you can you us with an understanding of the plaintiffs' lawyers employed which documents to select for 18 MS. O'DELL: Object form, asked and answered. 19 MS. O'DELL: Object form, asked and answered. 20 what's in each one of those to tell you if 21 there's something specifically that formed my 22 asking.	I need her to at were the vided to you by to the provided to
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7 MS. O'DELL: Objection to the 8 form, asked and answered three times 9 now. 10 A. The basis of my opinion is not 11 formed by any one document. 12 BY MS. BROWN: 13 Q. Is the basis of your opinion 14 formed, in part, by internal Johnson 15 & Johnson documents? 16 MS. O'DELL: Object to the 17 form. 18 A. I would have to look at all of 19 those documents again to tell you if there 20 was something specifically in there and what 21 MS. O'DELL: Object 22 Looking at them here, I don't recall that 23 what's in each one of those to tell you if there's something specifically that formed my 10 A. The documents were me by plaintiffs' lawyers. 11 BY MS. BROWN: 12 MS. O'DELL: Object 13 A. I'm not sure what you asking.	were the vided to you by to the provided to
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16 MS. O'DELL: Object to the 17 form. 18 A. I would have to look at all of 19 those documents again to tell you if there 20 was something specifically in there and what 21 the I just they're numbers to me. 22 Looking at them here, I don't recall that 23 what's in each one of those to tell you if 24 there's something specifically that formed my 16 BY MS. BROWN: 17 Q. And are you can you with an understanding of the plaintiffs' lawyers employee which documents to select for 20 which documents to select for 21 MS. O'DELL: Object 22 form, asked and answered. 23 A. I'm not sure what you asking.	
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Looking at them here, I don't recall that 23 what's in each one of those to tell you if 24 there's something specifically that formed my 25 form, asked and answered. 26 A. I'm not sure what you 27 asking.	your review?
what's in each one of those to tell you if 23 A. I'm not sure what you there's something specifically that formed my 24 asking.	to the
24 there's something specifically that formed my 24 asking.	
	ı're
Page 79	
1 DV MC DDOWN.	Page 81
1 opinion. 1 BY MS. BROWN: 2 MS. O'DELL: And you're 2 Q. Do you have an under	estanding of
, , , , , , , , , , , , , , , , , , , ,	-
3 referring to page 13. 3 how the plaintiffs' lawyers wen 4 THE WITNESS: Of Exhibit B. 4 picking the 20 J&J documents	
5 MS. O'DELL: Of Exhibit B. 5 Imerys documents that appear of We've been going about an hour and ten 6 your report?	III EXIIIDII D IO
7 minutes. 7 MS. O'DELL: Object	to the
	.o tile
8 BY MS. BROWN: 8 form. 9 Q. Sure. I'll just finish real 9 A. I didn't specifically as	le tham
quick on the company documents. If you just 10 how they came about finding the	
look at page 12 of your report, you list a 11 them, if that's what you're asking the state of the company documents. If you just 12 how they came about midning in 12 how they c	
12 number sorry, Exhibit B to your report, 12 BY MS. BROWN:	ig inc.
you list a number of Imerys entries. Do you 13 Q. Do you have any under the sum of the	erctanding
14 see that there? 14 sitting here today, of how the in	-
15 A. I do. 15 documents listed on page B of	
	o uic
	tha
7	
A. These were provided to me. 20 plaintiffs' attorneys compiled the plant of the pl	_
Q. And same with the J&J document, 21 didn't ask them their methodology did you select these to review or ware they.	
did you select those to review or were they 22 BY MS. BROWN:	ogy.
provided to you? 23 Q. Having reviewed the	
MS. O'DELL: Objection to the 24 documents that the plaintiffs' la	nternal

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	Page 82		Page 84
1	you, did you ask them for additional internal	1	MS. O'DELL: Fair enough.
2	documents?	2	MS. BROWN: If she asked you,
3	A. I don't recall.	3	as lawyers for the plaintiffs, for any
4	Q. Did you ask the plaintiffs'	4	information on which she is relying
5	lawyers any questions about any of the	5	for her opinion, then that's
6	internal documents they provided you?	6	discoverable. And so my question I
7	MS. O'DELL: Excuse me, I'm	7	appreciate your work-product concern.
8	going to object to that question.	8	My question is meant to stay within
9	MS. BROWN: I'll rephrase.	9	the bounds of the Federal Rules, which
10	MS. O'DELL: You're not	10	is that was there any information
11	entitled to understand	11	that you provided her about these
12	MS. BROWN: I'll rephrase	12	documents on which she is relying to
13	(Simultaneous discussion	13	form her opinion. That's
14	interrupted by reporter.)	14	discoverable.
15	MS. O'DELL: Let me finish my	15	MS. O'DELL: That's not the
16	objection before you interrupt me.	16	question you asked her.
17	MS. BROWN: Sure.	17	MS. BROWN: Yes, absolutely.
18	MS. O'DELL: So she's not	18	MS. O'DELL: You asked if she
19	entitled to ask you questions about	19	asked any questions, which goes to
20	your conversations with counsel.	20	communication. And what the rule
21	MS. BROWN: That's not entirely	21	allows discovery on are the materials
22	true.	22	provided to Dr. Wolf, which are
23	BY MS. BROWN:	23	available here for your review.
24	Q. I'm certainly entitled to know	24	They're available from the list that
	Q. The certainty entitled to know		They is available from the list that
	Page 83		Page 85
1	about information that counsel provided to	1	you've been provided. You're not
2	you that you're relying on to form your	2	entitled to any discussions, and that
3	opinions. So I will rephrase the question to	3	was what the question focused on. So
4	ask just for whether you asked for any you	4	why don't we
5	have any questions about these internal	5	MS. BROWN: We are entitled
6	documents that you asked of plaintiffs that	6	I just want to finish this question
7	you are relying on for your opinions here?	7	and we'll absolutely take a break. We
8	MS. O'DELL: Dr. Wolf, I'm	8	are entitled to any information,
9	going to instruct you not to discuss	9	verbal or otherwise that you may have
10	conversations you had with counsel.	10	given her, if she's relying on it.
11	You're certainly entitled,	11	And so I will rephrase the question to
12	under the rules, to know what	12	make clear, that all I want to know is
13	materials were provided for Dr. Wolf,	13	if she asked the lawyers a question
14	which we are doing that, but you're	14	about the documents, the answer to
15	not entitled to understand any	15	which she relies on for her opinion.
16	conversations that occurred between	16	That is 100 percent discoverable.
17	Dr. Wolf and counsel. I'm going to	17	MS. O'DELL: It is not. That's
18	instruct the witness not to answer.	18	a communication between counsel and
	MS. BROWN: But that's not the	19	she's not going to testify. Now, all
19		20	the materials that she's relying on
19 20	law. So the law is	20	the materials that she's ferying on
	law. So the law is MS. O'DELL: The law is	21	are present in the excuse me.
20			are present in the excuse me.
20 21	MS. O'DELL: The law is	21	

22 (Pages 82 to 85)

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1	you're welcome to ask all of the	1	missing each other, so let me ask my
2	questions you'd like. But in terms of	2	question and you instruct.
3	communications between counsel and	3	MS. O'DELL: I don't think we
4	Dr. Wolf, you're not entitled to	4	are.
5	discover that and I'm going to	5	MS. BROWN: We'll have it on
6	instruct the witness not to answer.	6	the record and be able to take it up.
7	MS. BROWN: Here's what we need	7	For the record, my position is, any
8	to do so we can take it to the judge.	8	information from counsel or otherwise,
9	I need an answer to the question, is	9	on which the witness relies for her
10	she relying on information from the	10	opinion is plainly discoverable under
11	lawyers regarding the documents. I	11	the Federal Rules.
12	need that's a yes or no. That's	12	MS. O'DELL: Disagree with that
13	not even questionable. If she says	13	position.
14	yes and you instruct her not to	14	BY MS. BROWN:
15	answer, we'll take it to the judge.	15	Q. Dr. Wolf, one quick question
16	We need an answer to that straight up.	16	here, and then we'll certainly take a break.
17	MS. O'DELL: So I want to make	17	I know we've been going a while.
18	sure I understand. Are you asking her	18	Did counsel for the plaintiffs
19	if she relies on these materials?	19	provide you with any information regarding
20	MS. BROWN: No. Here's where	20	internal company documents on which you are
21	we are. I want to know if she asked	21	relying to form the basis of your opinions in
22	the lawyers a question about the	22	this lawsuit?
23	documents, she got an answer and she's	23	MS. O'DELL: Object to the
24	relying on that answer to form the	24	question. And answer the question to
	, 8		1
	Page 87		Page 89
1	Page 87 basis of her opinion, and that is	1	the degree you understand it. If you
2		1 2	the degree you understand it. If you don't understand the question, you
	basis of her opinion, and that is		the degree you understand it. If you
2	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something	2	the degree you understand it. If you don't understand the question, you
2	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that	2 3	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I
2 3 4	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something	2 3 4	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the
2 3 4 5	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the	2 3 4 5	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I
2 3 4 5 6	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to	2 3 4 5 6	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information
2 3 4 5 6 7	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up	2 3 4 5 6 7	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but
2 3 4 5 6 7 8	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because	2 3 4 5 6 7 8	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use
2 3 4 5 6 7 8	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And	2 3 4 5 6 7 8	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The
2 3 4 5 6 7 8 9	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue	2 3 4 5 6 7 8 9	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no.
2 3 4 5 6 7 8 9 10	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And	2 3 4 5 6 7 8 9 10	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN:
2 3 4 5 6 7 8 9 10 11 12	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about	2 3 4 5 6 7 8 9 10 11	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf.
2 3 4 5 6 7 8 9 10 11 12 13	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with	2 3 4 5 6 7 8 9 10 11 12 13	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she	2 3 4 5 6 7 8 9 10 11 12 13 14	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break. MS. O'DELL: Okay. MS. BROWN: Thank you.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she considered and she relied on are present in front of her and to her	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break. MS. O'DELL: Okay. MS. BROWN: Thank you. THE VIDEOGRAPHER: Going off the record. The time is 10:21 a m.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she considered and she relied on are present in front of her and to her side.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break. MS. O'DELL: Okay. MS. BROWN: Thank you. THE VIDEOGRAPHER: Going off the record. The time is 10:21 a m. (Recess taken from 10:21 a.m.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she considered and she relied on are present in front of her and to her side. MS. BROWN: Let me	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break. MS. O'DELL: Okay. MS. BROWN: Thank you. THE VIDEOGRAPHER: Going off the record. The time is 10:21 a m. (Recess taken from 10:21 a.m. to 10:33 a m.)
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	basis of her opinion, and that is discoverable under the Federal Rules. So we're going to start with that question, did you rely on something the lawyers told you about the documents, and then if you want to instruct from there, we'll tee it up and talk to the judge about it because that's discoverable. MS. O'DELL: I think the issue is the discussion about "rely." And what but you're asking her about discussions with counsel. And that's different. And so she's not going to testify about discussions with counsel. The materials that she considered and she relied on are present in front of her and to her side. MS. BROWN: Let me MS. O'DELL: That's what's	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the degree you understand it. If you don't understand the question, you don't have to answer it, Dr. Wolf. A. My understanding of the question, what I hear you asking me, is did I ask counsel questions about this, information I got from them, not from the documents but from the answer to my question, did I use that information to form my opinion? The answer to that is no. BY MS. BROWN: Q. Thank you, Dr. Wolf. MS. BROWN: Why don't we go ahead and take a break. MS. O'DELL: Okay. MS. BROWN: Thank you. THE VIDEOGRAPHER: Going off the record. The time is 10:21 a m. (Recess taken from 10:21 a.m. to 10:33 a m.) THE VIDEOGRAPHER: Back on the

23 (Pages 86 to 89)

I	Page 90		Page 92
1	A. Thank you.	1	A. I don't have the supplemental
2	Q. Dr. Wolf, counsel for the	2	materials. I just have the Taher somewhere.
3	plaintiffs indicated to me earlier this	3	MS. BROWN: Counsel, has that
4	morning, that there are some additional	4	material been provided to the doctor?
5	documents that you have reviewed since the	5	MS. O'DELL: Yes.
6	time of your report. That would include the	6	MS. BROWN: Okay. We'll
7	pending health Canada risk assessment; is	7	request production of the supplemental
8	that correct?	8	materials as referenced in the Taher
9	A. Yes.	9	report.
10	Q. Okay. When did you review	10	MS. O'DELL: Let me make sure.
11	that?	11	What do you mean "supplemental"? Let
12	A. Sometime within the last few	12	me make sure I understand what you're
13	weeks. I don't remember the exact date.	13	saying. She's provided the Taher and
14	Q. Counsel indicated that you've	14	the she's provided the Taher paper
15	reviewed an article with the lead author	15	and the causal assessment.
16	Taher, T-a-h-e-r; is that correct?	16	MS. BROWN: Okay. The Taher
17	A. That's correct.	17	paper makes references in numerous
18	Q. When did you review that?	18	places to supplemental materials, and
19	A. Around the same time as the	19	my question was whether you've
20	Canadian health assessment.	20	provided those supplemental materials
21	Q. Were both the health Canada	21	to the witness and if so, I'll request
22	proposed report and the Taher article	22	production of it.
23	provided to you by counsel for the	23	MS. O'DELL: Okay. Let me
24	plaintiffs?	24	check that.
			Page 93
1	A. Yes.	1	MS. BROWN: Okay. Thank you.
2	Q. Do you know if the Taher	2	BY MS. BROWN:
3	article is publicly available yet?	3	Q. For your purposes, though,
4	A. I don't know. The copy that I	4	Dr. Wolf, it's not something you have on hand
5	have says that it's submitted for publication	5	sitting here today?
6	or is going to be submitted for publication.	6	A. It's not.
7	I haven't done a search to see if it's	7	Q. And because these materials
8	publicly available yet.	8	were recently provided to you by counsel for
9	Q. Have did you note in your	9	the plaintiffs, they did not form the basis
10	review of the Taher article, that it	10	of the report that you authored, dated
11	references, in numerous places, supplemental	11	November 16th, 2018; is that fair?
12	materials?	12	A. That's fair.
13	A. Yes.	13	Q. Okay. Counsel indicated you
14	Q. Have you reviewed the	14	have seen some of the other expert reports
15	supplemental materials on which Taher relies?	15	from witnesses for plaintiffs' lawyers in
16	A. I haven't reviewed them all.	16	this litigation; is that right?
17	Some of them I had reviewed otherwise, but	17	A. That's correct.
18	I I haven't reviewed them all, no.	18	Q. Okay. Can you tell me which
	Q. Did plaintiffs' lawyers give	19	ones you've reviewed?
19	you access to the supplemental materials	20	A. Can I see the list of all of
20		I .	
	relied on in Taher?	21	them? I don't
20	*	21 22	them? I don't MS. O'DELL: I don't have a
20 21	relied on in Taher?		

24 (Pages 90 to 93)

	Page 94		Page 96
1	epidemiology ones, but I don't remember the	1	for the plaintiffs submitted reports like
2	names. I reviewed part of one of the other	2	yours from a number of different people,
3	GYN oncology ones. It seemed to be similar	3	right?
4	to mine. I don't read it all. I didn't read	4	A. Yes.
5	the third. I can't remember.	5	Q. And there came a point in time
6	BY MS. BROWN:	6	when the plaintiffs' lawyers sent you some of
7	Q. Okay. So let's back up. How	7	those reports, correct?
8	many I assume the reports of these other	8	A. Yes.
9	experts were provided to you from the	9	Q. Did they send you completed
10	plaintiffs' lawyers; is that right?	10	reports or did they sent you draft reports?
11	A. That's correct.	11	A. They sent me the completed
12	Q. Okay. When did you did you	12	reports that had already been submitted and
13	receive them all at once?	13	turned in. I didn't see any drafts of
14	A. I did.	14	anybody else's reports.
15	Q. And do you recall approximately	15	Q. Got it. So in writing your
16	when you received them?	16	report in this case, which we have marked as
17	A. I don't know. Sometime after	17	Exhibit 7 and which is dated November 16th,
18	the reports were all submitted. I don't	18	2018, you did not rely on the opinions of
19	remember the date.	19	another expert. Fair?
20	Q. Okay. Prior to issuing your	20	MS. O'DELL: Object to the
21	report, dated November 16th, 2018, did you	21	form.
22	see any other expert reports?	22	A. My understanding what you're
23	MS. O'DELL: Object to the	23	asking me is, did I rely on the opinions of
24	form.	24	the expert reports in this case? No, I had
	Page 95		Page 97
1	A. I didn't see any of the expert	1	not seen them.
2	reports for this case.	2	BY MS. BROWN:
3	BY MS. BROWN:		
	BI MB. BRO WIN	3	Q. That was exactly what I was
4	Q. Okay. In fair to say, then,	3 4	
4 5	Q. Okay. In fair to say, then,		Q. That was exactly what I was
		4	Q. That was exactly what I was asking. Did you type the report that we've
5	Q. Okay. In fair to say, then, the opinions that you have contained in your	4 5	Q. That was exactly what I was asking. Did you type the report that we've marked as Exhibit 7 yourself, Doctor? A. You mean my fingers on?
5 6	Q. Okay. In fair to say, then, the opinions that you have contained in your report, dated November 16, 2018, you're not	4 5 6	Q. That was exactly what I was asking. Did you type the report that we've marked as Exhibit 7 yourself, Doctor? A. You mean my fingers on?
5 6 7	Q. Okay. In fair to say, then, the opinions that you have contained in your report, dated November 16, 2018, you're not relying on any other plaintiff expert in	4 5 6 7	Q. That was exactly what I was asking. Did you type the report that we've marked as Exhibit 7 yourself, Doctor?A. You mean my fingers on?Q. Correct.
5 6 7 8	Q. Okay. In fair to say, then, the opinions that you have contained in your report, dated November 16, 2018, you're not relying on any other plaintiff expert in forming these opinions; is that right?	4 5 6 7 8	 Q. That was exactly what I was asking. Did you type the report that we've marked as Exhibit 7 yourself, Doctor? A. You mean my fingers on? Q. Correct. A. I typed some of the drafts.
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. Okay. In fair to say, then, the opinions that you have contained in your report, dated November 16, 2018, you're not relying on any other plaintiff expert in forming these opinions; is that right? MS. O'DELL: Object to the form. Other than cited in her actual report. MS. BROWN: Counsel, it's objection to form. Don't testify for her. A. Well, the Plunkett deposition, I believe, is a reference in my report. BY MS. BROWN: Q. Well, it couldn't be a reference in your report because it didn't happen till after your report, right? A. Sorry. Yes.	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	Q. That was exactly what I was asking. Did you type the report that we've marked as Exhibit 7 yourself, Doctor? A. You mean my fingers on? Q. Correct. A. I typed some of the drafts. The final report, I dictated most of it. Q. So to whom did you dictate the report? A. I don't remember her name. Someone who works with the plaintiffs' attorneys. I'm not a typist. Q. Fair enough. How many hours did you spend preparing the report that we've marked as Exhibit 7? MS. O'DELL: Object to the form. A. An estimate of how much time, I would say 20 to 30 hours, total. I mean,

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	Page 98		Page 100
1	see some typos and errors that if I had it	1	A. Yes.
2	back, I would fix and change.	2	Q. You wrote that sentence?
3	BY MS. BROWN:	3	A. Yes.
4	Q. Did someone other than you	4	Q. Okay. Skipping down to the
5	write some of the information contained in	5	paragraph below "Summary of Epidemiological
6	Exhibit 7?	6	Evidence," the paragraph that begins, "When
7	A. Exhibit 7 is my report?	7	looking at epidemiological studies in their
8	Q. Correct.	8	totality" are you with me?
9	A. Other than things that I have	9	A. Yes.
10	in quotes that I've pulled from articles, no	10	Q. Did you write this entire
11	one else wrote it.	11	paragraph here?
12	Q. Other than information that you	12	A. Yes.
13	have in quotes, it's your testimony that all	13	Q. Did you give Dr. Ellen Blair
14	of the language that we see in Exhibit 7 is	14	Smith the authority to copy that into her
15	your own; is that right?	15	report?
16	MS. O'DELL: Object to the	16	A. I didn't speak with Dr. Ellen
17	form.	17	Blair Smith.
18	A. I wrote the report, the entire	18	Q. Are you surprised to learn that
19	report.	19	the information that you wrote on page 8 also
20	BY MS. BROWN:	20	appears in Dr. Blair Smith's report, which
21	Q. Do you know who Dr. Blair Smith	21	I'm handing you as Exhibit 8.
22	is?	22	(Deposition Exhibit 8 marked
23	A. Dr. Blair Smith?	23	for identification.)
24	Q. Correct.	24	MS. O'DELL: Object to the
	Page 99		Page 101
			Page 101
1	A. Is that is that Ellen Blair	1	form.
1 2	A. Is that is that Ellen Blair Smith?	1 2	
	Smith?		form.
2	Smith? Q. Correct.	2	form. A. Is it marked somewhere here
2	Smith? Q. Correct. A. I do know her, yes.	2	form. A. Is it marked somewhere here what it is? BY MS. BROWN:
2 3 4	Smith? Q. Correct. A. I do know her, yes. Q. Okay. Did you work with	2 3 4	form. A. Is it marked somewhere here what it is? BY MS. BROWN: Q. It is. If you look at page 16,
2 3 4 5	Smith? Q. Correct. A. I do know her, yes.	2 3 4 5	form. A. Is it marked somewhere here what it is? BY MS. BROWN: Q. It is. If you look at page 16, Doctor. And I'll direct you to the one,
2 3 4 5 6	Smith? Q. Correct. A. I do know her, yes. Q. Okay. Did you work with Dr. Blair Smith on your report? A. I did not.	2 3 4 5 6	form. A. Is it marked somewhere here what it is? BY MS. BROWN: Q. It is. If you look at page 16, Doctor. And I'll direct you to the one, two, three the end of the first go to
2 3 4 5 6 7	Smith? Q. Correct. A. I do know her, yes. Q. Okay. Did you work with Dr. Blair Smith on your report? A. I did not. Q. Okay. Do you know why a	2 3 4 5 6 7	form. A. Is it marked somewhere here what it is? BY MS. BROWN: Q. It is. If you look at page 16, Doctor. And I'll direct you to the one, two, three the end of the first go to the third complete paragraph that begins "In
2 3 4 5 6 7 8	Smith? Q. Correct. A. I do know her, yes. Q. Okay. Did you work with Dr. Blair Smith on your report? A. I did not.	2 3 4 5 6 7 8	form. A. Is it marked somewhere here what it is? BY MS. BROWN: Q. It is. If you look at page 16, Doctor. And I'll direct you to the one, two, three the end of the first go to
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26 (Pages 98 to 101)

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1 Doctor? 2 MS. O'DELL: Object to the 3 form. Are you referring to when 4 the fourth the last paragraph above 5 "Mechanism"? 6 MS. BROWN: "When looking at 1 BY MS. BROWN: 2 Q. In writing your rep 3 did you take any language f 4 articles? 5 MS. O'DELL: Sorr 6 quote language?	
2 MS. O'DELL: Object to the 3 form. Are you referring to when 3 did you take any language ff 4 the fourth the last paragraph above 5 "Mechanism"? 5 MS. O'DELL: Sorr	
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4 the fourth the last paragraph above 4 articles? 5 "Mechanism"? 5 MS. O'DELL: Sorr	
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	v. do vou mean
	<i>y</i> , we <i>y</i> e <i>a</i> mount
7 epidemiological studies." 7 BY MS. BROWN:	
8 BY MS. BROWN: 8 Q. Did you is any o	of the
9 Q. Do you see that, Doctor? 9 language contained in your	
10 A. Is that the last you're 10 own; meaning did it come fi	
11 talking about the last paragraph? 11 available sources or articles	
12 Q. Sorry, of your report. Page 8. 12 MS. O'DELL: Objection of the control of t	
13 Is that your language, Doctor? 13 form.	ect to the
	rt aama fram
14 A. This is my language; this is 14 A. Quotes in my repo 15 her language. I see some words that are the 15 articles.	it came nom
,	4 1:1
17 BY MS. BROWN: 17 Q. In writing your rep	ort, ala you
18 Q. And you see some sentences 18 consult Wikipedia?	
19 MS. O'DELL: Excuse me. She's 19 A. Did I do what?	"1 ' 1' O
20 not finished. 20 Q. Did you consult W	ikipedia?
21 Would you like to finish, 21 A. No.	
22 Dr. Wolf? 22 Q. Do you know wha	
23 A. But I mean, I'm just mostly 23 A. I do, but I don't co	
24 looking at the length of it and it's not even 24 any medical literature or sci	entific
Page 103	Page 105
1 the same length, so I don't see how it's the 1 literature.	
2 exact same thing. 2 Q. You don't consider Wi	kipedia to
3 BY MS. BROWN: 3 be a scientifically reliable sourc	e; is that
4 Q. You see some sentences that are 4 right?	
5 identical, right, Doctor? 5 A. I don't.	
	up with
6 MS. O'DELL: Object to the 6 Q. Okay. And in coming	_
6 MS. O'DELL: Object to the 6 Q. Okay. And in coming 7 form. 7 your report, that's not something	g that you
6 MS. O'DELL: Object to the 6 Q. Okay. And in coming 7 form. 7 your report, that's not something	g that you t?
6 MS. O'DELL: Object to the 6 Q. Okay. And in coming 7 form. 7 your report, that's not something 8 A. I don't see give me a chance 8 cut and pasted from; is that righ 9 to look at the entire thing. 9 A. I didn't look at Wikipe	g that you t?
6 MS. O'DELL: Object to the 6 Q. Okay. And in coming 7 form. 7 your report, that's not something 8 A. I don't see give me a chance 8 cut and pasted from; is that righ 9 to look at the entire thing. 9 A. I didn't look at Wikipe 10 BY MS. BROWN: 10 prepare my report.	g that you t? dia to
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 6 Q. Okay. And in coming 7 your report, that's not something 8 cut and pasted from; is that righ 9 A. I didn't look at Wikipe 10 prepare my report. 11 Q. And there aren't parts of	g that you t? dia to of your
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 16 Q. Okay. And in coming 7 your report, that's not something 7 your report, that's not something 9 cut and pasted from; is that righ 9 A. I didn't look at Wikipe 10 prepare my report. 11 Q. And there aren't parts of report that someone else did for	g that you t? dia to of your
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 13 right? O Okay. And in coming your report, that's not something out and pasted from; is that righ a cut and pasted from; is that righ out and pasted from; is that right out and pas	g that you t? dia to of your you; is that
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 16 Q. Okay. And in coming 7 your report, that's not something 9 A. I didn't look at Wikipe 10 prepare my report. 11 Q. And there aren't parts of report that someone else did for 12 report that someone else did for 13 right? 14 MS. O'DELL: Object to	g that you t? dia to of your you; is that
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 16 Q. Okay. And in coming 7 your report, that's not something 8 cut and pasted from; is that righ 9 A. I didn't look at Wikipe 9 prepare my report. 11 Q. And there aren't parts of report that someone else did for right? 14 be no significant publication bias." 15 A. That's right.	g that you t? dia to of your you; is that
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6 MS. O'DELL: Object to the 7 form. 7 your report, that's not something 8 A. I don't see give me a chance 9 to look at the entire thing. 9 A. I didn't look at Wikipe 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 15 Q. And also, Doctor, the sentence 16 that we just talked about, "All of the cohort 17 studies are limited by failure," that's the 18 Q. Okay. And in coming 7 your report, that's not something 8 cut and pasted from; is that righ 9 A. I didn't look at Wikipe 10 prepare my report. 11 Q. And there aren't parts of the prepare my report. 12 report that someone else did for right? 13 had there aren't parts of the prepare my report. 14 MS. O'DELL: Object to the prepare my report. 15 A. That's right. 16 BY MS. BROWN: 17 On page 2 of your report. 18 On page 2 of your report. 19 On page 2 of your report. 10 Details are limited by failure, "that's the prepare my report. 10 Details are limited by failure, "that's the prepare my report. 11 Q. On page 2 of your report. 12 On page 2 of your report. 13 On page 2 of your report. 14 Details are limited by failure, "that's the prepare my report. 14 Details are limited by failure, "that's the prepare my report. 15 On page 2 of your report. 16 Details are limi	g that you t? dia to of your you; is that o form.
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 15 Q. And also, Doctor, the sentence 16 that we just talked about, "All of the cohort 17 studies are limited by failure," that's the 18 same, right? O Nay. And in coming 7 your report, that's not something 8 cut and pasted from; is that righ 9 A. I didn't look at Wikipe 10 prepare my report. 11 Q. And there aren't parts of right? 12 MS. O'DELL: Object to A. That's right. 14 BY MS. BROWN: 15 Q. On page 2 of your report your report your report your report your report your indicate the method.	g that you t? dia to of your you; is that o form. ort,
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 15 Q. And also, Doctor, the sentence 16 that we just talked about, "All of the cohort 17 studies are limited by failure," that's the 18 same, right? 19 MS. O'DELL: Object to the 19 A. Okay. And in coming 7 your report, that's not something 7 your and pasted from; is that righ 9 A. I didn't look at Wikipe 12 report that someone else did for 13 right? MS. O'DELL: Object to 14 MS. O'DELL: Object to 15 A. That's right. 16 BY MS. BROWN: 17 Studies are limited by failure," that's the 18 Doctor, you indicate the method 19 about the methodology you emp	g that you t? dia to of your you; is that o form. ort,
form. A. I don't see give me a chance by to look at the entire thing. C. Okay. And in coming form. A. I don't see give me a chance by to look at the entire thing. C. Okay. And in coming form. A. I don't see give me a chance by to look at the entire thing. C. Okay. And in coming form. A. I don't seo give me a chance cut and pasted from; is that right A. I didn't look at Wikipe prepare my report. C. And there aren't parts of report that someone else did for right? A. Because I don't see I see con sentence is the same. "There appears to con sentence is the same. "There appears to con significant publication bias." C. And also, Doctor, the sentence con documents A. That's right. C. On page 2 of your report. C.	g that you t? dia to of your you; is that o form. ort,
form. A. I don't see give me a chance by to look at the entire thing. C. Ut and pasted from; is that right cut and pasted from; is that right cut and pasted from; is that right A. I didn't look at Wikipee C. With a cut and pasted from; is that right C. With a cut and pasted from; is that right A. I didn't look at Wikipee C. With a cut and pasted from; is that right A. I didn't look at Wikipee C. And there aren't parts of report that someone else did for right? C. And there aren't parts of right? C. And also, Doctor, the sentence C. And also, O'DELL: Object to the same, right? C. And also, Doctor, the sentence C. And also, O'DELL: Object to the same, right? C. On page 2 of your report. C. On page	g that you t? dia to of your you; is that o form. ort, 1 you talk oloyed here. Do
6 MS. O'DELL: Object to the 7 form. 8 A. I don't see give me a chance 9 to look at the entire thing. 10 BY MS. BROWN: 11 Q. Sure. 12 A. Because I don't see I see 13 one sentence is the same. "There appears to 14 be no significant publication bias." 15 Q. And also, Doctor, the sentence 16 that we just talked about, "All of the cohort 17 studies are limited by failure," that's the 18 same, right? 19 MS. O'DELL: Object to the 20 form. 21 A. No, it's not the same. It 21 A. Yes. 22 raises the same points, but it's not the 20 Doctor, day, and in coming your report, that's not something cut and pasted from; is that righ 20 cut and pasted from; is that righ 21 A. I didn't look at Wikipe 22 Preport that someone else did for 23 right? 24 MS. O'DELL: Object to 25 A. That's right. 26 BY MS. BROWN: 27 Q. On page 2 of your report 28 about the methodology you empty you see that? 29 A. No, it's not the same. It 20 Describe for us I und	g that you t? dia to of your you; is that o form. ort, 1 you talk oloyed here. Do
form. A. I don't see give me a chance by to look at the entire thing. C. Sure. C. A. Because I don't see I see cone sentence is the same. "There appears to cone sentence is the same. "There appears to C. And also, Doctor, the sentence cone same, right? C. And also, O'DELL: Object to the cone same, right? C. Okay. And in coming cone your report, that's not something cut and pasted from; is that righ A. I didn't look at Wikipe prepare my report. 12	g that you t? dia to of your you; is that o form. ort, 1 you talk oloyed here. Do derstand port, but

	Page 106		Page 108
1	to answer the question in this case.	1	a woman is exposed to when she uses it
2	A. So that's this is why I	2	perineally?
3	provided the UpToDate evidence-based	3	MS. O'DELL: Object to the
4	medicine. So I started with the question.	4	form.
5	The question is, does general use of talcum	5	A. Are you asking me if I've done
6	powder cause ovarian cancer. And then	6	a study? I'm not sure what you're asking.
7	researched the literature, looking for human	7	BY MS. BROWN:
8	studies, animal studies, in vitro studies.	8	Q. In forming your opinion in this
9	And then evaluated the validity of the	9	case, that talcum powder causes ovarian
10	studies as a whole, by looking at their	10	cancer, have you attempted to quantify how
11	materials and methods, the results and	11	much talcum powder causes ovarian cancer?
12	conclusions that they drew, what journal	12	MS. O'DELL: Object to the
13	the if it was published in a peer-reviewed	13	form.
14	journal, what journal it was in, what year it	14	A. In reviewing the articles, some
15	was published, were there multiple studies	15	of the studies have tried to look at length
16	showing similar findings, were there	16	of time, frequency of use, years of use,
17	outliers, and then from that formed my	17	total applications. It's hard for me to know
18	opinion.	18	what that amount is, because I don't know in
19	Q. And your conclusion is that	19	each individual woman, like, how much she put
20	genital talc use causes ovarian cancer,	20	in. And I also don't know in each individual
21	correct?	21	woman, what her risk might be from the talc,
22	A. That is genital talcum	22	based on her own genetic makeup and other
23	powder use, yes.	23	things in her immune system and how she
24	Q. And is your opinion limited to	24	responds to it.
	Page 107		Page 109
1	a certain quantity of genital powder use?	1	BY MS. BROWN:
1 2	a certain quantity of genital powder use? MS. O'DELL: Object to the	1 2	BY MS. BROWN:
	a certain quantity of genital powder use? MS. O'DELL: Object to the form.	1	BY MS. BROWN: Q. Have you calculated how much
2	MS. O'DELL: Object to the	2	BY MS. BROWN:
2	MS. O'DELL: Object to the form. A. It's not. And I had a hard	2 3	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer?
2 3 4	MS. O'DELL: Object to the form.	2 3 4	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause
2 3 4 5	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't	2 3 4 5	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the
2 3 4 5 6	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you	2 3 4 5 6	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form.
2 3 4 5 6 7	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to	2 3 4 5 6 7	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's
2 3 4 5 6 7 8	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to know a certain amount.	2 3 4 5 6 7 8	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's difficult, even from reviewing the literature
2 3 4 5 6 7 8	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to know a certain amount. BY MS. BROWN: Q. In forming your opinions in this case, have you attempted to quantify how	2 3 4 5 6 7 8	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's difficult, even from reviewing the literature and from all the questions that were asked,
2 3 4 5 6 7 8 9	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to know a certain amount. BY MS. BROWN: Q. In forming your opinions in	2 3 4 5 6 7 8 9	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's difficult, even from reviewing the literature and from all the questions that were asked, queried, to know how much any woman is
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to know a certain amount. BY MS. BROWN: Q. In forming your opinions in this case, have you attempted to quantify how much talcum powder an individual woman would be exposed to when using it in the genital area? MS. O'DELL: Objection to the form. Dr. Wolf's being offered for general causation, not for a specific plaintiff. A. Repeat the question again. BY MS. BROWN:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's difficult, even from reviewing the literature and from all the questions that were asked, queried, to know how much any woman is exposed to when she uses it. BY MS. BROWN: Q. So what you're identifying is one of the limitations of the talc epidemiology, correct? MS. O'DELL: Object to the form. A. What I'm identifying is one of the limitations of knowing what dose is safe. BY MS. BROWN:
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. It's not. And I had a hard time with that issue just because I don't know what a dose is, because how much do you shake, how much do you apply, it's hard to know a certain amount. BY MS. BROWN: Q. In forming your opinions in this case, have you attempted to quantify how much talcum powder an individual woman would be exposed to when using it in the genital area? MS. O'DELL: Objection to the form. Dr. Wolf's being offered for general causation, not for a specific plaintiff. A. Repeat the question again. BY MS. BROWN: Q. Sure. We were talking about how much powder use, in your opinion, causes	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. BROWN: Q. Have you calculated how much genital talc powder is needed to cause ovarian cancer? MS. O'DELL: Object to the form. A. Again, I think that my it's difficult, even from reviewing the literature and from all the questions that were asked, queried, to know how much any woman is exposed to when she uses it. BY MS. BROWN: Q. So what you're identifying is one of the limitations of the talc epidemiology, correct? MS. O'DELL: Object to the form. A. What I'm identifying is one of the limitations of knowing what dose is safe. BY MS. BROWN: Q. In your mind, is there a dose of genital talcum powder that does not cause
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28 (Pages 106 to 109)

	Page 110		Page 112
1	Q. Have you investigated whether	1	BY MS. BROWN:
2	or not there is an amount of talcum powder	2	Q. Are you referring to
3	that can be used perineally without	3	plaintiffs' expert witness reports?
4	increasing the risk for ovarian cancer?	4	A. Let me look in my report here
5	MS. O'DELL: Objection, asked	5	for just one second. I'm sorry, I just need
6	and answered.	6	to look in here to find it. Because there is
7	A. I don't know if there is an	7	plaintiffs' expert witness, but
8	amount that's safe. I don't know how I could	8	MS. O'DELL: Take your time,
9	ethically test that. I'm not aware of	9	Doctor.
10	anything in the literature that says, "This	10	THE WITNESS: All right.
11	dose is safe, this dose is not." Because	11	BY MS. BROWN:
12	even in all of the studies, what is a dose?	12	Q. And, Doctor, maybe I can help.
13	One shake? Two shakes? A hard shake? A	13	On page 9 of your report, you reference in
14	light shake?	14	the third paragraph
15	BY MS. BROWN:	15	A. Yes.
16	Q. Is your opinion, Dr. Wolf, that	16	Q that you believe Dr. Longo
17	some amount of perineal talcum powder use	17	and Rigler have demonstrated tale to be
18	causes ovarian cancer, is that opinion	18	may be contaminated with asbestos. Do you
19	dependent on an assumption that talcum powder	19	see that?
20	is contaminated with asbestos?	20	A. That's correct. And then also
21	A. No, because	21	there's the deposition of John Hopkins.
22	MS. O'DELL: Object to the	22	Q. What information are you
23	form.	23	relying on from the deposition of John
24	A talcum powder is a mix of	24	Hopkins?
	Page 111		Dama 112
			Page 113
1	things, right? It's a mix of platy talc,	1	A. A report that I saw.
2	things, right? It's a mix of platy tale, fibrous tale, asbestos, heavy metals have	1 2	A. A report that I saw.Q. Okay. What you just pulled
	things, right? It's a mix of platy tale, fibrous tale, asbestos, heavy metals have been found in it, nickel and chromium and		A. A report that I saw. Q. Okay. What you just pulled out a document from your binder. What is
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2 3 4 5	things, right? It's a mix of platy talc, fibrous talc, asbestos, heavy metals have been found in it, nickel and chromium and cobalt, and then all of the fragrances. And I have seen the expert report of Michael	2 3	 A. A report that I saw. Q. Okay. What you just pulled out a document from your binder. What is that, Doctor? A. That is the this is part of
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	Page 114		Page 116
1	A. If I was, I don't recall.	1	BY MS. BROWN:
2	Q. Did you ask to see Exhibit 28	2	Q. So in terms of interpreting the
3	to John Hopkins' deposition?	3	findings of the chart, which list a number of
4	A. Specifically ask for that? I	4	different test methods, you'd agree you're
5	did not. I was provided it.	5	not a microscopist. True?
6	Q. So the lawyers decided to give	6	MS. O'DELL: Object to the
7	you John Hopkins' Exhibit 28; is that right?	7	form.
8	A. I received it from the lawyers.	8	A. Can you define what a
9	Q. Okay. And do you know what's	9	"microscopist" is in your from what you're
10	contained within Exhibit 28?	10	asking me?
11	A. Do I know what's contained	11	BY MS. BROWN:
12	within it? It's a chart of testing of talcum	12	Q. Sure. Are you do you hold
13	powder from various sources and various time	13	yourself out to the medical community as an
14	periods, how the test was done and what the	14	expert in light microscopy in looking
15	results showed, as well as a few other things	15	using various different types of microscopy
16	on there.	16	to study minerals?
17	Q. Did you do you know who	17	A. No, I'm not.
18	created this chart, Dr. Wolf?	18	Q. And you understand that the
19	A. I don't.	19	chart you just handed me includes a number of
20	Q. Do you have any idea if the	20	different test methods, correct?
21	four pages of testing contained in Exhibit 28	21	A. Yes.
22	to John Hopkins' deposition is representative	22	Q. And you're not aware whether
23	of all the testing that was done on Johnson	23	those test methods are even capable of
24	& Johnson's product?	24	distinguishing or finding asbestos, correct?
	Page 115		Page 117
1	MS. O'DELL: Object to the	1	MC ODELL OI: 44 4
		1	MS. O'DELL: Object to the
2	form.	2	form.
3	A. I don't know if it is or it	1	form. A. I'm assuming since they found
3 4	A. I don't know if it is or it isn't, but what I know is what I see there,	2 3 4	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that
3 4 5	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos	2 3 4 5	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify
3 4 5 6	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time.	2 3 4 5 6	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are.
3 4 5	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN:	2 3 4 5	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN:
3 4 5 6 7 8	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar	2 3 4 5 6 7 8	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what
3 4 5 6 7 8 9	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"?	2 3 4 5 6 7 8	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor.
3 4 5 6 7 8 9	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't	2 3 4 5 6 7 8 9	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite
3 4 5 6 7 8 9 10	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to	2 3 4 5 6 7 8 9 10	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite
3 4 5 6 7 8 9 10 11 12	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to	2 3 4 5 6 7 8 9 10 11 12	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite,
3 4 5 6 7 8 9 10 11 12	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that.	2 3 4 5 6 7 8 9 10 11 12 13	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite, actinolite, tremolite, actinolite sorry.
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3 4 5 6 7 8 9 10 11 12 13 14 15	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of	2 3 4 5 6 7 8 9 10 11 12 13 14 15	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite, actinolite, tremolite, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed.
3 4 5 6 7 8 9 10 11 12 13 14 15 16	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of distinguishing between asbestiform and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite, actinolite, tremolite, actinolite, tremolite, actinolite actinolite, tremolite, actinolite, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed. Q. And are you familiar, Doctor,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of distinguishing between asbestiform and nonasbestiform minerals, you would defer to somebody else on that question; is that right? MS. O'DELL: Object to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite fibrous talc, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed. Q. And are you familiar, Doctor, with the fact that tremolite exists both as tremolite asbestos and as the nonasbestiform version of that mineral? Are you aware of that?
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of distinguishing between asbestiform and nonasbestiform minerals, you would defer to somebody else on that question; is that right? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite fibrous talc, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed. Q. And are you familiar, Doctor, with the fact that tremolite exists both as tremolite asbestos and as the nonasbestiform version of that mineral? Are you aware of that? A. Yes.
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of distinguishing between asbestiform and nonasbestiform minerals, you would defer to somebody else on that question; is that right? MS. O'DELL: Object to the form. A. What I'm going to say is that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite fibrous talc, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed. Q. And are you familiar, Doctor, with the fact that tremolite exists both as tremolite asbestos and as the nonasbestiform version of that mineral? Are you aware of that? A. Yes. Q. Okay. And do you what
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I don't know if it is or it isn't, but what I know is what I see there, is that the results show evidence of asbestos contamination over a period of time. BY MS. BROWN: Q. Do you know are you familiar with the test method "XRD"? A. I'm not a geologist and I don't understand the test methods. So I'm going to have to say I would defer to the geologist to answer a question about that. Q. So in terms of whether or not a test method known as "XRD" is even capable of distinguishing between asbestiform and nonasbestiform minerals, you would defer to somebody else on that question; is that right? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. A. I'm assuming since they found asbestos, that they are. I'm assuming that since they were used to try to identify asbestos, that they are. BY MS. BROWN: Q. Show me on this chart what asbestos finding you're referring to, Doctor. A. The second page, tremolite here, tremolite, tremolite, actinolite fibrous talc, tremolite, tremolite, actinolite sorry. I'm sorry. I didn't mean to go so fast. I'm looking at what tests revealed. Q. And are you familiar, Doctor, with the fact that tremolite exists both as tremolite asbestos and as the nonasbestiform version of that mineral? Are you aware of that? A. Yes.

	Page 118		Page 120
1	tremolite asbestos and not the nonasbestiform	1	BY MS. BROWN:
2	version?	2	Q. And have you reviewed what
3	MS. O'DELL: Object to the	3	you just pointed me to, Dr. Wolf, is a
4	form.	4	testing from the 1970s by Dr. Langer,
5	A. I wasn't given that	5	correct?
6	information. All I can say is that there	6	A. Can I see the whole thing?
7	is some of them say "tremolite," others	7	Q. Sure. You pointed me to
8	say "fibrous crocidolite, fibrous tremolite,	8	Dr. Langer, Mount Sinai, 1975, right?
9	actinolite."	9	A. Yes.
10	BY MS. BROWN:	10	Q. Okay. Are you familiar with
11	Q. And whether the information	11	Dr. Langer's testing of talcum powder
12	that's contained on the exhibit from	12	products in the 1970s?
13	Dr. Hopkins' deposition that was given to you	13	MS. O'DELL: Object to the
14	by the plaintiffs' lawyers, whether that, in	14	form. And if you're going to ask
15	fact, indicates a finding of asbestos, you're	15	questions about the exhibit, if you'll
16	not the expert in that. Fair?	16	put it back in front of the witness.
17	MS. O'DELL: Object to the	17	MS. BROWN: Absolutely.
18	form.	18	MS. O'DELL: You've asked a
19	A. I'm looking at the results, and	19	question, she's going to respond, so
20	even if I take out ones that just say	20	hand her back Exhibit 28.
21	"tremolite," and don't tell me if it's the	21	MS. BROWN: I'm not sure she
22	asbestos form or not, I see I see others	22	needs it to answer it.
23	that do say "asbestos, asbestos fibers,	23	MS. O'DELL: I'm sure counsel
24	fibrous tale"	24	has a copy of Exhibit 28 if you if
	Page 119		Page 121
1	BY MS. BROWN:	1	you need it. I'm sure you have it
2	Q. Show me where it says	2	committed to memory.
3	"asbestos."	3	A. Can you ask the question again?
4	A. This one says "confirmed	4	BY MS. BROWN:
5	asbestos."	5	Q. Sure. In supporting your view
6	Q. And did you ask did you look	6	that 60 percent of talcum powder products are
7	at the product that was being tested here,	7	contaminated with asbestos, you've handed me
8	Doctor? Meaning, do you even know if this	8	a chart that the lawyers gave you from
9	was cosmetic talcum powder?	9	Dr. Hopkins' deposition and pointed me to an
10	MS. O'DELL: Object to the	10	entry of a test that Dr. Langer performed in
11	form. If you want her to look at the	11	the 1970s, right?
12	exhibit in full, you can ask a	12	MS. O'DELL: Object to the
13	question.	13	form, misstates her testimony as to
14	BY MS. BROWN:	14	the percentage. It's not what she
15	Q. Sure. You just pointed me to a	15	referred to.
16	line on the chart that says they're testing	16	A. That's the line I pointed at.
17	ore mud. Do you have any source of	17	BY MS. BROWN:
18	information that would lead you to believe	18	Q. Okay. But to be fair,
1 10	that that was ore that was used to make	19	Dr. Wolf, you are not familiar with the
19			
20	cosmetic talc?	20	testing that Dr. Langer did on talcum powder
20 21	cosmetic talc? MS. O'DELL: Object to the	20	products in the 1970s, right?
20 21 22	cosmetic talc? MS. O'DELL: Object to the form.		
20 21 22 23	cosmetic talc? MS. O'DELL: Object to the form. A. Are you talking about the one	21 22 23	products in the 1970s, right? A. I am not. Q. Okay. And you are certainly
20 21 22	cosmetic talc? MS. O'DELL: Object to the form.	21 22	products in the 1970s, right? A. I am not.

31 (Pages 118 to 121)

	Page 122		Page 124
1	Administration did to check all of the work	1	Q. Did you review the testing that
2	that Dr. Langer did, correct?	2	the FDA did of Johnson's Baby Powder in the
3	MS. O'DELL: Object to the	3	1970s?
4	form.	4	MS. O'DELL: Object to the
5	A. I am not aware of all of the	5	form.
6	testing or checking that the FDA did to test	6	A. I don't recall reviewing in
7	Dr. Langer's work.	7	detail the testing that they did.
8	BY MS. BROWN:	8	BY MS. BROWN:
9	Q. And so in giving that	9	Q. Were you aware that the FDA
10	testimony, you were not aware that the FDA	10	determined, based on its own testing of
11	tested that Dr. Langer sample and determined	11	Johnson's baby powder product in the 1970s,
12	there was no asbestos?	12	that it was asbestos free?
13	A. That specific	13	MS. O'DELL: Object to the
14	MS. O'DELL: Excuse me.	14	form.
15	BY MS. BROWN:	15	A. I was aware that they reported
16	Q. Let me just	16	that.
17	MS. O'DELL: No. I get to	17	BY MS. BROWN:
18	BY MS. BROWN:	18	Q. Did you consider the finding of
19	Q. I need to ask my question.	19	the United States Food and Drug
20	MS. O'DELL: I need to have the	20	Administration's own testing of baby powder's
21	opportunity to object. If you'd give	21	product, before coming to your opinion that
22	me just a moment. Object to the form	22	60 percent of baby powder is contaminated
23	of the question. Misstates the	23	with asbestos?
24	record.	24	MS. O'DELL: Object to the
	Page 123		Page 125
1	MS. BROWN: But here's what	1	form.
2	happened. I didn't get the question	2	A. What I said, I believe, was
3	out.	3	that what I saw of the samples that I saw
4	MS. O'DELL: Yes, you did.	4	tested, 60 percent showed evidence. I'm not
5	MS. BROWN: So let me get the	5	saying that I didn't say that what I
6	question on the record	6	said was, of what I saw, 60 percent showed
7	MS. O'DELL: Yes, you did.	7	evidence of asbestos.
8	MS. BROWN: and then we'll	8	BY MS. BROWN:
9	leave time for Ms. O'Dell to object	9	Q. And you're getting that 60
10	and then, Doctor, you can answer.	10	percent figure from an expert report for a
11	So my question was, you're not	11	plaintiffs' lawyer in litigation, correct?
12	aware that the FDA tested all of the	12	MS. O'DELL: Object to the
13	Langer samples that were conducted in	13	form.
14	the 1970s and determined that J&J's	14	A. Are you referring to the Longo
15	product was free from asbestos, right?	15	and Rigler report?
16	MS. O'DELL: Object to the	16	BY MS. BROWN:
17	form, misstates the record.	17	Q. I am.
18	A. I'm not aware that the FDA	18	A. Yes.
	tested all of Dr. Langer's testing, no.	19	Q. Okay. So the basis for your
19		1 20	opinion that 60 percent of baby powder
19 20	BY MS. BROWN:	20	-L L L
		21	products are contaminated with asbestos is a
20	BY MS. BROWN:	1	
20 21	BY MS. BROWN: Q. Were you aware that the FDA	21	products are contaminated with asbestos is a

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1 form. 1 tested baby powder in 2009 2 A. My 60 percent of what I saw 2 A. I don't recall. 3 tested had evidence. 3 Q. Is it important to 3 4 BY MS. BROWN: 4 considered that information	Page 128
2 A. My 60 percent of what I saw 2 A. I don't recall. 3 tested had evidence. 3 Q. Is it important to	9 and 2010?
3 tested had evidence. 3 Q. Is it important to	
	you, to have
2 Di MS. Dice wit.	
5 Q. So the entire basis of your 5 an expert opinion that baby	•
6 opinion that 60 percent of what was tested 6 contaminated with asbestos	
7 had asbestos comes from this Longo report, 7 MS. O'DELL: Obj	
8 right? 8 form.	jeet to the
9 MS. O'DELL: Object to the 9 A. Can you show me	that
10 form. 10 information?	that
11 A. 60 percent of what I saw. 11 BY MS. BROWN:	
12 BY MS. BROWN: 12 Q. Sure.	
13 Q. What methodology did you employ 13 THE WITNESS: (Can vou pull up
14 in terms of weighting the evidence from 14 the Longo report for me	• • •
Dr. Longo, a plaintiffs' expert witness, or 15 (Deposition Exhibit the Food and Drug Administration? 16 for identification.)	n 7 maikeu
	Walf as
both into consideration. Given that there's 20 the FDA's website regarding the state of the stat	•
been a continued concern since the 1970s and 21 I'll represent to you, is a rej	-
beyond, that there is a relationship with 22 FDA's testing of baby pow	_
23 general talcum powder use and ovarian cancer, 23 asbestos in 2009-2010. Ce	•
I had to look at all of the information. And 24 long as you need to review	it, but I'd refer
Page 127	Page 129
1 if there is any asbestos in baby powder, it's 1 you to the very last page, wh	ich tests the
2 one of the components that could be 2 Johnson's baby powder produ	uct and reports, by
3 carcinogenic. 3 both PLM and TEM, no asbe	estos.
4 BY MS. BROWN: 4 MS. O'DELL: Woul	ld you would
5 Q. Okay. We're talking about the 5 you mind is it 9? Exhi	•
6 basis for your opinion to believe there is 6 MS. BROWN: Yes.	
7 asbestos in baby powder. Are you with me? 7 Exhibit 9. Sorry.	• .
8 MS. O'DELL: Object to the 8 MS. O'DELL: And	feel free to
9 form. 9 take an opportunity to rev	
10 A. Yes. 10 Exhibit 9, Dr. Wolf.	
11 BY MS. BROWN: 11 BY MS. BROWN:	
12 Q. Okay. And I understand one of 12 Q. Dr. Wolf, I see you'	're looking
	-
the things you relied on was Dr. Longo's 13 at the Longo report, which I'm	
the things you relied on was Dr. Longo's 13 at the Longo report, which I's report, right? 14 you plenty of time to look at,	•
13 the things you relied on was Dr. Longo's 14 report, right? 15 A. Yes. 11 at the Longo report, which I'm you plenty of time to look at, want to ask you a question at	•
the things you relied on was Dr. Longo's 14 report, right? 15 A. Yes. 16 Q. And you are testifying that you 13 at the Longo report, which I's you plenty of time to look at, want to ask you a question at the FDA's testing.	bout Exhibit 9,
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, 15 A. Yes. 16 Q. And you are testifying that you 17 also took into consideration the FDA's 18 at the Longo report, which I's you plenty of time to look at, 19 want to ask you a question at the FDA's testing. 10 the FDA's testing. 11 A. And what is your question at the FDA's	oout Exhibit 9, uestion?
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, 15 A. Yes. 16 Q. And you are testifying that you 16 the FDA's testing. 17 also took into consideration the FDA's 18 testing in the 1970s, correct? 18 at the Longo report, which I'n you plenty of time to look at, 16 want to ask you a question at 17 the FDA's testing. 18 Q. Were you aware of	poout Exhibit 9, uestion? the FDA's
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, 15 A. Yes. 16 Q. And you are testifying that you 16 the FDA's testing. 17 also took into consideration the FDA's 18 testing in the 1970s, correct? 19 A. Yes. 13 at the Longo report, which I's 14 you plenty of time to look at, 15 want to ask you a question at 16 the FDA's testing. 17 A. And what is your question at the FDA's also took into consideration the FDA's 18 Q. Were you aware of testing of Johnson's baby power.	poout Exhibit 9, uestion? the FDA's
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, 15 A. Yes. 16 Q. And you are testifying that you 16 the FDA's testing. 17 also took into consideration the FDA's 18 testing in the 1970s, correct? 19 A. Yes. 20 Q. Did you consider the FDA's 20 2009 and 2010?	uestion? the FDA's wder products in
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, 15 A. Yes. 15 want to ask you a question at 16 Q. And you are testifying that you 16 the FDA's testing. 17 also took into consideration the FDA's 18 testing in the 1970s, correct? 19 A. Yes. 20 Q. Did you consider the FDA's 21 testing in 2009 and 2010? 21 A. I can't recall specific	oout Exhibit 9, uestion? the FDA's wder products in cally
the things you relied on was Dr. Longo's report, which I's report, right? 14 report, right? 15 A. Yes. 16 Q. And you are testifying that you also took into consideration the FDA's testing. 17 also took into consideration the FDA's testing in the 1970s, correct? 18 testing in the 1970s, correct? 19 A. Yes. 20 Q. Did you consider the FDA's testing of Johnson's baby power of testing in 2009 and 2010? 21 testing in 2009 and 2010? 22 A. I'd have to look at that 22 that I was aware of that. Am	oout Exhibit 9, uestion? the FDA's wder products in cally
the things you relied on was Dr. Longo's report, right? 14 you plenty of time to look at, you a question at C. And you are testifying that you also took into consideration the FDA's testing in the 1970s, correct? A. Yes. Q. Did you consider the FDA's testing in 2009 and 2010? 13 at the Longo report, which I's you plenty of time to look at, you plenty of time to look at, the FDA's want to ask you a question at the FDA's testing. 17 A. And what is your question at the FDA's testing of Johnson's baby pown and 2010? 20 Q. Did you consider the FDA's 21 A. I can't recall specific	nestion? the FDA's wder products in cally I surprised

33 (Pages 126 to 129)

1			Page 132
_	consider third-party testing of Johnson's	1	A. Yes. As well as the Hopkins
2	baby powder, like Princeton, MIT, Colorado	2	data.
3	School of Mines? Did you consider any of	3	BY MS. BROWN:
4	those testings?	4	O. But we talked about
5	MS. O'DELL: Object to the	5	MS. O'DELL: Excuse me.
6	form.	6	Dr. Wolf, when you say the "Hopkins
7	A. Well, some of those were on	7	data," are you referring to the
8	this report.	8	Exhibit 28?
9	BY MS. BROWN:	9	THE WITNESS: Yes.
10	Q. Did you consider the testing	10	BY MS. BROWN:
11	that they did in connection with the 1970s	11	Q. We talked about Exhibit 28,
12	Langer findings that determined there was no	12	Doctor, and admittedly you're not able to
13	asbestos in Johnson's baby powder?	13	interpret the testing methods that were used
14	MS. O'DELL: Object to the	14	there, correct?
15	form, misstates the record.	15	MS. O'DELL: Object to the
16	A. I'm getting a little confused	16	commentary. It's not what she said.
17	about what you're asking, about "the	17	It misrepresents her testimony.
18	consider." I mean, I considered everything	18	A. You asked me about
19	that I saw.	19	MS. BROWN: Hold on.
20	BY MS. BROWN:	20	BY MS. BROWN:
21	Q. And that's what I'm trying to	21	Q. Your counsel thinks I'm
22	find out. So I understand you are here today	22	misrepresenting your testimony and I
23	giving us an opinion that baby powder	23	certainly don't mean to do that. We agreed,
24	contains asbestos. True?	24	Doctor, did we not, that you're not a
	Page 131		Page 133
1	A. Some baby powder, I believe,	1	microscopist?
2	contains asbestos, yes.	2	MS. O'DELL: Object to the
3	Q. What percentage of baby powder	3	form.
4	contains asbestos?	4	A. See, when you say
5	A. It doesn't matter what	5	"microscopist," I say that that that's a
6	percentage to me, if any of it does. I'm	6	term to me that means more than I think
7	telling you the reports that I've seen, 60	7	you're meaning to say. I routinely look at
8	percent in the testing that I've seen. I	8	light microscopy, a pathology of gynecologic
9	don't care if that's if you took all baby	9	cancers. So in that area, would you say I'm
10	powder and it's 60 percent or not. If	10	a microscopist? I don't know. Do I
11	there's any in there, it's a concern to me.	11	routinely look for asbestos? I do not.
12	Q. Okay. So I understand you to	12	BY MS. BROWN:
13	have an opinion there is asbestos in some	13	Q. Right. You don't hold yourself
14	amount of baby powder, correct?	14	out to the medical community as someone who
15	MS. O'DELL: Object to the	15	is qualified to look at bulk samples of baby
16	form.	16	powder for the presence of asbestos. True?
17	A. In the testing that I've seen,	17	A. I do not.
18	yes, I believe there's asbestos in some baby	18	Q. You have never used a
19	powder.	19	transmission electron microscope. True?
20	BY MS. BROWN:	20	A. I might have used one when I
	Q. Okay. And you're talking about	21	was in medical school or a fellowship.
21		I .	
21 22	Dr. Longo's litigation testing, right?	22	Q. It's not a regular part of your
	Dr. Longo's litigation testing, right? MS. O'DELL: Object to the	22 23	Q. It's not a regular part of your practice to use TEM or SEM electron

34 (Pages 130 to 133)

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	Page 134		Page 136
1 A.	It's not.	1	you're asking me? I don't know I don't
2 Q.	Okay. We're going to have to	2	have that information.
3 change to	ne tape in a few minutes, but you	3	BY MS. BROWN:
4 hold the	opinion, do you not, Doctor, that	4	Q. Have you reviewed Dr. Longo's
5 baby pov	vder is contaminated with asbestos?	5	report on the samples he acquired, in part,
6	MS. O'DELL: Object to the	6	from eBay?
7 form	, asked and answered.	7	A. I'm laughing at eBay.
8 A.	I believe that some baby powder	8	Q. I know. It sounds funny,
9 contains	asbestos.	9	doesn't it?
10 BY MS.	BROWN:	10	MS. O'DELL: Object to the
11 Q.	Do you believe that to be true	11	form.
12 in terms	of current baby powder on the shelf?	12	A. I believe there was some
13 A.	The testing that I've seen goes	13	commercial commercial products. I didn't
14 up throu	gh the 1990s. So that's all I can	14	know it was eBay. But commercial product
15 speak to		15	that was off the shelf.
16 Q.	Okay. You're not offering an	16	BY MS. BROWN:
	hat any baby powder after the 1990s	17	Q. Did you review and are you
18 contains	asbestos; is that right?	18	relying on Dr. Longo's report of vintage baby
	MS. O'DELL: Object to the	19	powder bottles that he purchased on eBay?
20 form	•	20	MS. O'DELL: Object to the
21 A.	I'm not offering any opinion	21	form.
22 about wh	nat's in baby powder tests beyond	22	A. I'm just looking for his
23 where I'v	ve seen testing of it.	23	sources.
24		24	(Witness reviews document.)
	Page 135		Page 137
	BROWN:	1	A. When I looked in this report
	And the testing that you've	2	for where the materials and methods, I
	the form of Dr. Longo's report.	3	don't see anything about eBay on here.
4 True?		4	BY MS. BROWN:
	Yes.	5	Q. Did the lawyers for plaintiffs
	Okay. Where did Dr. Longo get	6	give you Dr. Longo's prior reports?
•	es that he tested; do you know?	7	A. Yes, they're here somewhere.
	I thought that some of them	8	BY MS. BROWN:
	o look here again. From J&J.	9	Q. And I don't mean to have you
-	Did you review, Doctor and	10	have to do homework here, Dr. Wolf. I just
	say "J&J," do you mean the samples		•
		11	want to know if you're relying on Dr. Longo's
12 that came	through warehouses and were	12	want to know if you're relying on Dr. Longo's testing of the eBay samples.
that came archived	through warehouses and were in the J&J "museum"?	12 13	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the
that came 13 archived 14 N	through warehouses and were in the J&J "museum"? AS. O'DELL: Object to the	12 13 14	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form.
12 that came 13 archived 14 M 15 form,	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record.	12 13 14 15	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the
12 that came 13 archived 14 M 15 form, 16 BY MS.	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN:	12 13 14 15 16	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing.
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q.	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point.	12 13 14 15 16 17	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN:
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M	through warehouses and were in the J&J "museum"? IS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. IS. O'DELL: Testify to what	12 13 14 15 16 17 18	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M 19 you'v	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. MS. O'DELL: Testify to what e seen, Doctor.	12 13 14 15 16 17 18 19	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how you employed your methodology of the weight
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M 19 you'v 20 A.	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. MS. O'DELL: Testify to what e seen, Doctor. What I see is the source of the	12 13 14 15 16 17 18 19 20	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how you employed your methodology of the weight of the evidence to evaluate Dr. Longo's
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M 19 you'v 20 A. 21 talcum po	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. MS. O'DELL: Testify to what e seen, Doctor. What I see is the source of the owder for these J&J historical	12 13 14 15 16 17 18 19 20 21	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how you employed your methodology of the weight of the evidence to evaluate Dr. Longo's findings, the FDA's findings, third-party
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M 19 you'v 20 A. 21 talcum po 22 samples o	through warehouses and were in the J&J "museum"? IS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. IS. O'DELL: Testify to what e seen, Doctor. What I see is the source of the owder for these J&J historical came from Italian Vermont talc mines.	12 13 14 15 16 17 18 19 20 21 22	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how you employed your methodology of the weight of the evidence to evaluate Dr. Longo's findings, the FDA's findings, third-party institution findings?
12 that came 13 archived 14 M 15 form, 16 BY MS. 17 Q. 18 M 19 you'v 20 A. 21 talcum po 22 samples o 23 So they v	through warehouses and were in the J&J "museum"? MS. O'DELL: Object to the misstates the record. BROWN: Well, that's a good point. MS. O'DELL: Testify to what e seen, Doctor. What I see is the source of the owder for these J&J historical	12 13 14 15 16 17 18 19 20 21	want to know if you're relying on Dr. Longo's testing of the eBay samples. MS. O'DELL: Object to the form. A. I'm relying on whole the whole of Dr. Longo's testing. BY MS. BROWN: Q. Okay. And explain to us how you employed your methodology of the weight of the evidence to evaluate Dr. Longo's findings, the FDA's findings, third-party

35 (Pages 134 to 137)

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	Page 138		Page 140
1	THE WITNESS: Am I to answer or	1	of the documents that are cited in Hopkins'
2	not answer?	2	Exhibit 28?
3	MS. O'DELL: If you understand	3	A. No.
4	the question. If you don't understand	4	Q. Do you know who created
5	the question, you may ask that it be	5	Hopkins' Exhibit 28?
6	rephrased.	6	A. Specifically, no.
7	A. Can you rephrase the question?	7	Q. Okay. Do you know whether
8	BY MS. BROWN:	8	these represent final or preliminary test
9	Q. How did you weight the evidence	9	results?
10	contained in Hopkins Exhibit 28 in connection	10	MS. O'DELL: Object to the
11	with the findings of the FDA?	11	form.
12	MS. O'DELL: Object to the	12	A. I don't know.
13	form.	13	BY MS. BROWN:
14	A. I considered the weight of all	14	Q. Do you know whether the entries
15	of the evidence in the whole of the risk of	15	that indicate testing of ore is industrial or
16	talcum powder in ovarian cancer. This is a	16	cosmetic talc ore?
17	small piece of it.	17	A. I don't.
18	BY MS. BROWN:	18	MS. O'DELL: Object to the
19	Q. I want to concentrate just on	19	form.
20	your opinion that there's asbestos in talc.	20	BY MS. BROWN:
21	And I want to know, did you weight	21	Q. Other than Hopkins' Exhibit 28,
22	Dr. Longo's litigation reports the same as	22	Dr. Longo and the two FDA reports we've
23	the testing by the FDA?	23	discussed, are you relying on anything else
24	MS. O'DELL: Object to the form	24	to inform your opinion that talcum powder is
	Page 139		Page 141
	rage 137		Page 141
1	of the question, misstates her	1	contaminated with asbestos?
1 2		1 2	
	of the question, misstates her		contaminated with asbestos?
2	of the question, misstates her testimony.	2	contaminated with asbestos? A. I also have the deposition of
2 3	of the question, misstates her testimony. MS. BROWN: It's a question.	2 3	contaminated with asbestos? A. I also have the deposition of Dr. Blount. Q. And what in the deposition of Dr. Blount informs your opinion that talc is
2 3 4	of the question, misstates her testimony. MS. BROWN: It's a question. There's no testimony. We've got to go	2 3 4	contaminated with asbestos? A. I also have the deposition of Dr. Blount. Q. And what in the deposition of
2 3 4 5	of the question, misstates her testimony. MS. BROWN: It's a question. There's no testimony. We've got to go off anyway. Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 11:18 a m.	2 3 4 5	contaminated with asbestos? A. I also have the deposition of Dr. Blount. Q. And what in the deposition of Dr. Blount informs your opinion that talc is contaminated with asbestos? A. Let me get it out.
2 3 4 5 6	of the question, misstates her testimony. MS. BROWN: It's a question. There's no testimony. We've got to go off anyway. Let's take a break. THE VIDEOGRAPHER: Going off	2 3 4 5 6 7 8	contaminated with asbestos? A. I also have the deposition of Dr. Blount. Q. And what in the deposition of Dr. Blount informs your opinion that talc is contaminated with asbestos? A. Let me get it out. THE WITNESS: It's probably
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2 3 4 5 6 7 8 9 10 11 12 13 14	of the question, misstates her testimony. MS. BROWN: It's a question. There's no testimony. We've got to go off anyway. Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 11:18 a m. (Recess taken from 11:18 a m. to 11:27 a m.) THE VIDEOGRAPHER: This marks the beginning of disk 2. Back on the record. The time is 11:27 a m. BY MS. BROWN: Q. Dr. Wolf, before we took a break, we were discussing your opinion that	2 3 4 5 6 7 8 9 10 11 12 13 14 15	contaminated with asbestos? A. I also have the deposition of Dr. Blount. Q. And what in the deposition of Dr. Blount informs your opinion that talc is contaminated with asbestos? A. Let me get it out. THE WITNESS: It's probably over there. This is not the right reference. There it is. Sorry. I even had it marked. (Witness reviews document.) BY MS. BROWN: Q. Are you relying in part on Dr. Blount's testimony, Dr. Wolf?
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36 (Pages 138 to 141)

Judith K. Wolf, M.D.

Page 142 Page 144 1 A. And the question is, did I use 1 products that are contaminated with asbestos 2 this -- this -- this article that I have is 2 are Johnson & Johnson baby powder products? 3 from 1991. I'm looking at my references. 3 A. Let me look at one thing and 4 Yes, I did -- did use this. 4 then I'll answer your question. 5 BY MS. BROWN: 5 (Witness reviews document.) Q. And when you say "this," is it 6 6 A. Given that the market of 7 7 your testimony that you are relying on the Johnson -- of talcum powder products is --8 information contained in Blount's 1991 8 the majority is Johnson's baby powder and 9 article to inform your opinion that talc is 9 Johnson & Johnson products. I'm assuming 10 10 contaminated with asbestos? that in this, where they've got consumer products, that some of those were Johnson & 11 A. I'm relying on all of the --11 12 all of the references that I have in my list. 12 Johnson. That's one of them. BY MS. BROWN: 13 13 14 Q. Well, some of these references 14 Q. And you understand that some of have nothing to do with Johnson's baby 15 the consumer products they tested did not 15 16 powder, right? 16 have asbestos? 17 A. Yes. The references that 17 A. Yes. 18 specifically are the testing for Johnson's 18 Q. Did you understand that? A. I understand that. 19 baby powder that I'm relying on for my 19 20 Okay. What informs your 20 statement that some baby -- some talcum 21 opinion that the products that were all 21 powder product contains asbestos, are the 22 tested in 1976, in which he found asbestos, 22 Hopkins data that I showed you, the Longo 23 testing and the deposition of Dr. Blount. 23 were Johnson & Johnson products? 24 24 Q. So did you write the paragraph MS. O'DELL: Object to the Page 143 Page 145 1 that cites, for example, Paoletti and Rohl form. 2 1976? 2 That each one specifically that 3 3 was tested is a Johnson & Johnson product? A. Yes. 4 Q. Okay. Why would you include 4 Is that what you're asking me? 5 Rohl 1976 as evidence that talcum powder --5 BY MS. BROWN: Johnson's baby powder is contaminated? 6 6 Q. Are you relying on Rohl 1976 to 7 A. I'd have to read it again to 7 support your opinion that Johnson's baby 8 tell you what specifically I pulled out of 8 powder is contaminated with asbestos? 9 there. Would you like me to do that? 9 A. This was a consumer talcum 10 Q. Let me see if I can ask you 10 powder product. The majority of consumer 11 some questions and save us some time. The 11 talcum powder product is Johnson & Johnson. 12 article --12 I'm assuming that some of this is Johnson & 13 MS. O'DELL: Excuse me. Feel 13 Johnson. Some of it tested positive. That, 14 free to turn to it, if you'd like. along with all of the other evidence, leads 14 15 THE WITNESS: All right. 15 many to have the opinion that some Johnson & 16 MS. O'DELL: I believe it's in 16 Johnson talcum powder products contain 17 this one. 17 asbestos. BY MS. BROWN: 18 18 O. You have assumed that some of 19 Q. The article reports on some 19 the positive test results from Rohl 1976 were 20 products tested being contaminated and others 20 Johnson & Johnson products; is that right? 21 not. Do you remember that? 21 MS. O'DELL: Object to the 22 Yeah. 22 A. 23 O. And what information are you 23 I'm assuming that some of them 24 relying on to support your opinion that the 24 were.

37 (Pages 142 to 145)

	Page 146		Page 148
1	BY MS. BROWN:	1	that that the majority of the products are
2	Q. And other than your assumption,	2	Johnson sold products consumer products
3	are you relying on any other information for	3	are Johnson & Johnson, that I I do assume
4	your to support your opinion that Rohl	4	that some of the ones that were tested in
5	1976 tested Johnson baby powder products and	5	this are Johnson & Johnson. I took that
6	found asbestos?	6	information and put it with the other
7	A. The fact that the majority of	7	information to make my conclusion.
8	consumer products are made by Johnson &	8	BY MS. BROWN:
9	Johnson.	9	Q. And if you were wrong about
10	Q. So Dr. Wolf, as I understand	10	your assumption regarding Rohl 1976, how
11	your methodology, you've made an assumption,	11	would that affect your opinion here?
12	that because the majority of talcum powder	12	A. I don't believe it would affect
13	products are made by J&J, the positive	13	my opinion that talcum powder products
14	results in the Rohl study must have included	14	include asbestos. So I don't think it would
15	J&J products?	15	change my opinion.
16	A. I used I what I'm saying	16	Q. So whether Rohl found a
17	is that this supports all the other evidence	17	positive test result for a Johnson & Johnson
18	that there's been asbestos found in some	18	product or not doesn't affect your opinion;
19	Johnson & Johnson products.	19	is that right?
20	Q. Right. But my question was a	20	MS. O'DELL: Objection to the
21	little different. You've made an assumption,	21	form.
22	that because J&J sells a lot of talcum powder	22	A. My concern is that overall
23	products, they must be one of the positive	23	multiple testing, over multiple years from
24	test results in the Rohl 1976 article. True?	24	multiple sites, suggests that some talcum
	Page 147		Page 149
1	MS. O'DELL: Object to the	1	powder product contains asbestos.
2	form, it misstates Dr. Wolf's	2	BY MS. BROWN:
3	testimony.	3	Q. Have you formed an opinion
4	A. I don't believe that's what I	4	about what percentage of Johnson & Johnson
5	said. I believe that my assumption is	5	talcum powder product contains asbestos?
6	that some of the powder tested in this is	6	A. I don't care what percentage
7	Johnson & Johnson product. Some of the	7	does. If there's any in it, it's too much.
8	powder tested in this tested positive for	8	Q. Okay. But we're going to get
9	asbestos.	9	through this so much faster if you just
10	In the other studies some of	10	listen to my question. Which was, have you
11	the powder tested, some of which was Johnson	11	formed an opinion about how much of Johnson &
12	& Johnson, some of which might be from some	12	Johnson's talcum powder products are
13	other company, tested positive, and therefore	13	contaminated with asbestos?
14	the whole of the evidence, in my belief,	14	MS. O'DELL: Excuse me,
15	shows that some Johnson & Johnson product	15	Dr. Wolf. Move to strike the
16	talcum powder products contain asbestos.	16	commentary. You may answer the
17	BY MS. BROWN:	17	questions in any way you feel
18	Q. You've made an assumption that	18	appropriate, Dr. Wolf. So object to
19	Johnson & Johnson's baby powder products that	19	the form of the question.
	were tested by Rohl in 1976 contained	20	A. Sorry, you're going to what
20	•	21	your question was again.
20 21	asbestos, correct?		your question was again.
	asbestos, correct? MS. O'DELL: Object to the	22	BY MS. BROWN:
21			

38 (Pages 146 to 149)

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	Page 150		Page 152
1	attempted to quantify or estimate what	1	dangerous.
2	percentage of Johnson & Johnson powder	2	BY MS. BROWN:
3	Johnson & Johnson baby powder products are	3	Q. And in terms of your
4	contaminated with asbestos?	4	methodology for analyzing the epidemiology in
5	MS. O'DELL: Object to the	5	this case, have you done that with an
6	form.	6	assumption that the talcum powder evaluated
7	A. I haven't attempted to quantify	7	in the epi contained asbestos?
8	what percentage of Johnson & Johnson baby	8	A. That question is not clear to
9	powder products contain asbestos. I hold the	9	me. Are you
10	opinion that if any of it contains asbestos,	10	Q. Let me rephrase. I understand
11	it's too much.	11	you looked at a number of epi studies in
12	BY MS. BROWN:	12	forming your opinion here, correct?
13	Q. Have you formed an opinion	13	A. Yes.
14	about what type of asbestos is contaminating	14	Q. Have you made the assumption
15	Johnson & Johnson baby powder products?	15	that the talcum powder that was studied in
16	A. It doesn't matter to me. All	16	those epi studies contained asbestos?
17	types of asbestos are carcinogenic.	17	MS. O'DELL: Object to the
18	Q. And that wasn't my question.	18	form.
19	My question was, have you formed an opinion	19	A. So I'm going to say that when
20	about what type of asbestos is contaminating	20	I when reviewing all of the studies, I
21	Johnson & Johnson's baby powder products?	21	wasn't really thinking specifically about the
22	MS. O'DELL: Excuse me. Object	22	components of talcum powder product. I was
23	to the form of the question, asked and	23	looking at the epidemiology of the findings
24	answered.	24	of talcum powder product and its risk for
		1	
	Page 151		Page 153
1	Page 151 A. I'll restate that. Because it	1	_
1 2	A. I'll restate that. Because it	1 2	ovarian cancer, and then separately, in
	A. I'll restate that. Because it doesn't matter to me what which type of		ovarian cancer, and then separately, in investigating and looking at all the
2	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of	2	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to
2	A. I'll restate that. Because it doesn't matter to me what which type of	2 3	ovarian cancer, and then separately, in investigating and looking at all the
2 3 4	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I	2 3 4	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology
2 3 4 5	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type.	2 3 4 5	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies.
2 3 4 5 6	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type. BY MS. BROWN:	2 3 4 5 6	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies. So I'm not in the end, as a
2 3 4 5 6 7	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type. BY MS. BROWN: Q. Do you have an opinion as to	2 3 4 5 6 7	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies. So I'm not in the end, as a whole it's part of the whole, but
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2 3 4 5 6 7 8 9 10 11	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type. BY MS. BROWN: Q. Do you have an opinion as to how much contamination is in each individual bottle of Johnson & Johnson's baby powder? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies. So I'm not in the end, as a whole it's part of the whole, but specifically looking at the epidemiology studies, that wasn't my biggest concern. My concern was, did the use of genital talcum powder increase the risk of ovarian cancer?
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type. BY MS. BROWN: Q. Do you have an opinion as to how much contamination is in each individual bottle of Johnson & Johnson's baby powder? MS. O'DELL: Object to the form. A. Because it doesn't matter to me how much there is, whether it's a small amount, a large amount, a medium amount, my concern is that if there's any in it, it's dangerous; I haven't formed an opinion about how much there is.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies. So I'm not in the end, as a whole it's part of the whole, but specifically looking at the epidemiology studies, that wasn't my biggest concern. My concern was, did the use of genital talcum powder increase the risk of ovarian cancer? BY MS. BROWN: Q. Do you believe that talc that's not contaminated with asbestos can cause ovarian cancer? A. I think of the product as a whole versus separate, and my concern is that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. I'll restate that. Because it doesn't matter to me what which type of asbestos might be contained in a sample of Johnson & Johnson's talcum powder product, I don't have any opinion as to what type. BY MS. BROWN: Q. Do you have an opinion as to how much contamination is in each individual bottle of Johnson & Johnson's baby powder? MS. O'DELL: Object to the form. A. Because it doesn't matter to me how much there is, whether it's a small amount, a large amount, a medium amount, my concern is that if there's any in it, it's dangerous; I haven't formed an opinion about how much there is. BY MS. BROWN: Q. Do you believe that there's no amount of asbestos that's safe? MS. O'DELL: Object to the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	ovarian cancer, and then separately, in investigating and looking at all the components of talcum powder as a way to explain the results of the epidemiology studies. So I'm not in the end, as a whole it's part of the whole, but specifically looking at the epidemiology studies, that wasn't my biggest concern. My concern was, did the use of genital talcum powder increase the risk of ovarian cancer? BY MS. BROWN: Q. Do you believe that talc that's not contaminated with asbestos can cause ovarian cancer? A. I think of the product as a whole versus separate, and my concern is that in the talcum powder product, whether or not a particular sample has asbestos, yes, there are other things in there that can be carcinogenic and inflammatory and cause

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	Page 154		Page 156
1	cancer?	1	physician when you treated this patient?
2	MS. O'DELL: Objection to the	2	A. At MD Anderson.
3	form.	3	Q. You'd agree that the literature
4	A. I believe that asbestos is one	4	that IARC relies upon in finding that
5	of the products one of the components of	5	asbestos can cause ovarian cancer is in the
6	talcum powder that causes carcinogenesis of	6	occupational context?
7	the ovary or cancer of the ovary, but I think	7	MS. O'DELL: Object to the
8	that in a specific sample, whether or not	8	form.
9	there's asbestos, there's enough other	9	A. Yes, I would say that they
10	products that can be carcinogenic that, yes,	10	looked at inhalation generally and dermal
11	I think it's still at risk.	11	contact, yes.
12	BY MS. BROWN:	12	BY MS. BROWN:
13	Q. Okay. Have you reviewed, in	13	Q. And they looked at that in the
14	connection with your opinions, Doctor, IARC's	14	heavy occupational exposure context, correct?
15	review of asbestos?	15	MS. O'DELL: Objection to the
16	A. Yes.	16	form.
17	Q. Do you believe that asbestos is	17	A. You know, I'd have to look at
18	a recognized cause of ovarian cancer?	18	the wording in that IARC again to answer that
19	A. Yes.	19	question.
20	Q. Have you ever diagnosed a	20	BY MS. BROWN:
21	patient with ovarian cancer caused by	21	Q. Dr. Wolf, I'll hand we'll
22	asbestos?	22	mark as Exhibit 10, IARC's monograph on
23	A. I have, that I can recall, at	23	asbestos and ovarian cancer.
24	least one patient.	24	
	Page 155		Page 157
1	Q. And what was the asbestos	1	(Deposition Exhibit 10 marked
2	exposure of this patient encounter?	2	for identification.)
3	A. I don't recall. It was a long	3	BY MS. BROWN:
4	time ago.	4	Q. I'll direct your attention to
5	Q. And you documented in a	5	page 256. Did you review all of the studies
6	patient's chart that you believed her ovarian	6	in this monograph before forming your
7	cancer was caused by asbestos?	7	opinions in this case?
8	A. I'd have to go back and review	8	MS. O'DELL: Do you have a copy
			MS. OBLEE. Bo you have a copy
9	the chart. I don't think I, personally, put	9	for me, Counsel?
	the chart. I don't think I, personally, put that in the chart. I'd have to review the	9 10	* **
9			for me, Counsel?
9 10	that in the chart. I'd have to review the	10	for me, Counsel? A. Are you asking did I separately
9 10 11	that in the chart. I'd have to review the chart. It may be in her chart, in the	10 11	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph?
9 10 11 12	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of	10 11 12	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN:
9 10 11 12 13	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her	10 11 12 13	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes.
9 10 11 12 13 14	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where	10 11 12 13 14	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references?
9 10 11 12 13 14	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was the concern.	10 11 12 13 14 15	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse
9 10 11 12 13 14 15	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was	10 11 12 13 14 15 16	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse me. Can I just ask, is this going to
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9 10 11 12 13 14 15 16 17	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was the concern. Q. Did this patient have	10 11 12 13 14 15 16 17 18	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse me. Can I just ask, is this going to be Exhibit 10? MS. BROWN: No, I marked Exhibit 10. MS. O'DELL: Okay. This is
9 10 11 12 13 14 15 16 17 18	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was the concern. Q. Did this patient have occupational exposure to asbestos?	10 11 12 13 14 15 16 17 18 19 20 21	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse me. Can I just ask, is this going to be Exhibit 10? MS. BROWN: No, I marked Exhibit 10. MS. O'DELL: Okay. This is A. I don't think I reviewed all of
9 10 11 12 13 14 15 16 17 18 19 20	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was the concern. Q. Did this patient have occupational exposure to asbestos? A. I don't recall.	10 11 12 13 14 15 16 17 18 19 20	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse me. Can I just ask, is this going to be Exhibit 10? MS. BROWN: No, I marked Exhibit 10. MS. O'DELL: Okay. This is
9 10 11 12 13 14 15 16 17 18 19 20 21	that in the chart. I'd have to review the chart. It may be in her chart, in the pathology report that they saw evidence of fibers in the cancer. It might be it was her exposure. I just remember one patient where I went and reviewed the literature on asbestos in ovarian cancer because that was the concern. Q. Did this patient have occupational exposure to asbestos? A. I don't recall. Q. You	10 11 12 13 14 15 16 17 18 19 20 21	for me, Counsel? A. Are you asking did I separately read all of the articles in this monograph? BY MS. BROWN: Q. Yes. A. The references? MS. O'DELL: Counsel, excuse me. Can I just ask, is this going to be Exhibit 10? MS. BROWN: No, I marked Exhibit 10. MS. O'DELL: Okay. This is A. I don't think I reviewed all of

40 (Pages 154 to 157)

	Page 158		Page 160
1	IARC relies on in what we've marked as	1	statistically significant increase of ovarian
2	Exhibit 10, inform your opinion in this case?	2	cancer, correct?
3	A. My opinion that asbestos causes	3	MS. O'DELL: Object to the
4	cancer?	4	form.
5	Q. Yes.	5	A. There's an increase, but not a
6	A. It's part of the opinion, yes.	6	statistically significant increase.
7	Q. What do you rely on to support	7	BY MS. BROWN:
8	your opinion that asbestos causes ovarian	8	Q. Well, that's an important
9	cancer?	9	distinction, isn't it, Doctor?
10	A. I would say that this and all	10	A. So it would be it would be
11	of the literature. And some of this	11	stronger evidence if it was statistically
12	literature, I believe, is in my	12	significant. I'm not writing it off as not
13	contributing contributing materials that I	13	important, because the overall conclusion is
14	reviewed. The Reid paper, the Langseth	14	that asbestos increases the risk of ovarian
15	paper, the Magnani paper. Just didn't read	15	cancer. And I certainly wouldn't suggest
16	them all, but all of their references.	16	that anyone expose themselves to asbestos,
17	Q. And you would agree that the	17	whether it's an occupational hazard or not,
18	studies that IARC reviewed were in the heavy	18	not just for its risk of ovarian cancer, but
19	occupational exposure context, correct?	19	for the risk of other cancers, lung cancers,
20	MS. O'DELL: Object to the	20	pleural cancers, renal cancers.
21	form.	21	Q. The only studies on which IARC
22	A. Occupationally exposed.	22	relies to support its conclusion that
23	BY MS. BROWN:	23	asbestos causes ovarian cancer that have a
24	Q. Let's look at page 256, the	24	statistically significant finding are in the
	Page 159		Page 161
1	second column, the first full paragraph.	1	heavy occupational context, correct?
2	"The Working Group noted that a causal		,,
		2	MS. O'DELL: Object to the
3	association between exposure to asbestos and		MS. O'DELL: Object to the form.
3 4	association between exposure to asbestos and cancer of the overy was clearly established	2 3 4	form.
4	cancer of the ovary was clearly established	3	form. A. In that paragraph, that's what
4 5	cancer of the ovary was clearly established based on five strongly positive cohort	3 4	form. A. In that paragraph, that's what it says.
4	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy	3 4 5	form. A. In that paragraph, that's what it says. BY MS. BROWN:
4 5 6 7	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos."	3 4 5 6 7	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies
4 5 6 7 8	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos." Right?	3 4 5 6	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies looking at women who are experiencing heavy
4 5 6 7	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos." Right? MS. O'DELL: Object to the	3 4 5 6 7 8	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies looking at women who are experiencing heavy occupational exposure to asbestos, can be
4 5 6 7 8 9	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos." Right? MS. O'DELL: Object to the form.	3 4 5 6 7 8	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies looking at women who are experiencing heavy
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos." Right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what IARC concluded, right? MS. O'DELL: Object to the form. A. Well, that's part of the conclusion. The next study shows that women and girls with environmental but not exposure	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies looking at women who are experiencing heavy occupational exposure to asbestos, can be relied on in the cosmetic exposure context? A. Can be relied on Q. Do you think that women experiencing heavy occupational exposure to asbestos are exposed to the same amount of asbestos as women using talcum powder perineally? A. I don't know the answer to that.
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	cancer of the ovary was clearly established based on five strongly positive cohort mortality studies of women with heavy occupational exposure to asbestos." Right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what IARC concluded, right? MS. O'DELL: Object to the form. A. Well, that's part of the conclusion. The next study shows that women and girls with environmental but not exposure to occupational exposure had positive but not a significant increase in ovarian cancer also.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	form. A. In that paragraph, that's what it says. BY MS. BROWN: Q. Do you believe that studies looking at women who are experiencing heavy occupational exposure to asbestos, can be relied on in the cosmetic exposure context? A. Can be relied on Q. Do you think that women experiencing heavy occupational exposure to asbestos are exposed to the same amount of asbestos as women using talcum powder perineally? A. I don't know the answer to that. Q. Have you attempted to quantify the difference between heavy occupational

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Judith K. Wolf, M.D.

Page 162 Page 164 1 A. I haven't attempted to 1 environmental asbestos. I don't know if 2 quantify. But if we go back to what I'm 2 those women used talcum powder in their 3 talking about here is the talcum powder 3 perineum. But again, talcum powder product 4 product, which I believe some of which 4 is more than asbestos. 5 contains asbestos but also contains fibrous 5 BY MS. BROWN: 6 talc, heavy metals and fragrances that are 6 Q. Are you relying on the 7 7 irritating. So it's hard -- it's apples and nonstatistically significant findings in the 8 oranges. It's asbestos occupationally that 8 environmental studies of women exposed to 9 we're saying here. It's a talcum powder 9 asbestos to support your view that cosmetic 10 product of which one of the concerning 10 talcum powder exposure causes ovarian cancer? 11 components is asbestos and so it's more than 11 MS. O'DELL: Object to the 12 just asbestos. 12 form. 13 BY MS. BROWN: 13 A. I'm relying on the fact that 14 Q. Are you aware of any scientific 14 asbestos is carcinogenic, fibrous talc is 15 literature that has attempted to quantify the 15 carcinogenic, platy talc via IARC is a 16 difference in exposure between heavy possible carcinogenic, heavy metals, chromium 16 17 occupational asbestos exposure and cosmetic 17 and nickel are carcinogenic, cobalt is 18 talcum powder use? 18 possibly carcinogenic and many of the 19 A. Of asbestos specifically, is 19 fragrances in talcum powder product are 20 that what you're asking me? What are you 20 irritating, that that combination of product 21 asking? 21 causes ovarian cancer in some women and puts 22 Q. Are you aware of any scientific 22 any woman who uses it on her perineum at 23 literature that attempts to quantify the 23 risk -- increased risk for ovarian cancer. 24 difference between how much a woman is 24 Page 163 Page 165 exposed -- how much asbestos a woman is 1 BY MS. BROWN: 2 exposed to in the occupational context versus 2 Q. Other than the nonstatistically 3 if she uses a cosmetic talcum powder product 3 significant studies discussed in IARC's 4 that you believe is contaminated with monograph on asbestos, are you aware of any 4 5 5 asbestos? scientific support linking asbestos to 6 MS. O'DELL: Object to the 6 ovarian cancer outside of the heavy 7 7 occupational context? form. 8 A. I'm not aware of any literature 8 MS. O'DELL: Object to the 9 that specifically would answer that question 9 form, asked and answered. 10 because how much, how often the talcum powder 10 A. I'm going to say I'm not aware 11 is used would have -- would differentiate 11 of that, but it doesn't form my opinion. I'm 12 there. 12 going to go back to -- and I know I keep 13 BY MS. BROWN: 13 repeating the same thing over again -- it's 14 Q. Are you aware of any scientific 14 not the asbestos alone. Asbestos is one of 15 support that exposure -- nonoccupational 15 the -- one of the issues that's a component 16 exposure to asbestos causes ovarian cancer? 16 of talcum powder product that I'm concerned 17 MS. O'DELL: Object to the 17 about, that I believe the combination of all 18 form, asked and answered. 18 of those things can increase the risk of 19 So these papers referred here, 19 ovarian cancer. 20 in fact the Reid paper, suggests that in 20 BY MS. BROWN: 21 nonoccupational exposure, there's an 21 Q. Isn't it important for you to 22 increase, although not a statistically 22 know or have established how much asbestos 23 significant risk of ovarian cancer in women 23 you believe is contaminating baby powder 24 exposed to what would be presumed to be 24 products before you can make that opinion?

42 (Pages 162 to 165)

	Page 166		Page 168
1	MS. O'DELL: Object to the	1	know, as far as my understanding, there isn't
2	form.	2	a study that's taken one out and looked at
3	A. To me it is not and that's	3	the difference in carcinogenicity, whether
4	because if if things work in an additive	4	one or the other is not there, but it doesn't
5	or synergistic way, the amount of asbestos	5	matter to me because they're there. Asbestos
6	that on its own might increase or not	6	is carcinogenic. Heavy metals are
7	increase the risk of ovarian cancer is	7	carcinogenic. Nickel and chromium. Platy
8	separate from the amount of asbestos that in	8	tale is possibly carcinogenic. Fibrous tale
9	combination with all of the other components	9	is asbestos. It's carcinogenic.
10	might increase the risk of ovarian cancer.	10	BY MS. BROWN:
11	BY MS. BROWN:	11	Q. Is there a threshold exposure
12	Q. What scientific support do you	12	to asbestos in your mind that is needed to
13	have for your opinion that asbestos works in	13	cause ovarian cancer?
14	an additive way with the other constituents	14	A. Are you asking about asbestos
15	of talcum powder to increase a woman's risk	15	on its own?
16	for ovarian cancer?	16	Q. Asbestos on its own.
17	A. I don't know that specifically	17	A. I'm not aware what that
18	for asbestos, but I know that in general,	18	threshold is.
19	cancer doesn't occur because of one thing; it	19	Q. Have you attempted to survey
20	occurs because of multiple things. And that	20	the literature to see if there is any
21	toxins can work in combination and that	21	scientific studies examining whether there is
22	causes of cancer can work in combination.	22	a threshold level of asbestos exposure that
23	For instance, the human papilloma virus	23	causes ovarian cancer?
24	causes cervical cancer, but if you smoke on	24	MS. O'DELL: Object to the
	Page 167		Page 169
	-		1490 107
1	top of that, your risk of cervical cancer is	1	form.
1 2		1 2	
	top of that, your risk of cervical cancer is		form.
2	top of that, your risk of cervical cancer is greater than if you don't smoke.	2	form. A. Hold on one second. Because
2 3	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and	2 3	form. A. Hold on one second. Because I'm looking on my papers about an asbestos
2 3 4	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are	2 3 4	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies.
2 3 4 5	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are additive and/or synergistic. My concern is	2 3 4 5	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies. So my my brain says how I would test that,
2 3 4 5 6	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are additive and/or synergistic. My concern is that they're all toxic and more than likely,	2 3 4 5 6	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies. So my my brain says how I would test that, would be to give humans varying amounts of
2 3 4 5 6 7	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are additive and/or synergistic. My concern is that they're all toxic and more than likely, I suspect, there are some additivity plus or	2 3 4 5 6 7	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies. So my my brain says how I would test that, would be to give humans varying amounts of asbestos knowing what you're giving them and
2 3 4 5 6 7 8	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are additive and/or synergistic. My concern is that they're all toxic and more than likely, I suspect, there are some additivity plus or minus synergism.	2 3 4 5 6 7 8	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies. So my my brain says how I would test that, would be to give humans varying amounts of asbestos knowing what you're giving them and seeing who got cancer or not, and that study
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2 3 4 5 6 7 8 9	top of that, your risk of cervical cancer is greater than if you don't smoke. So things can be additive and are synergistic. I don't know if these are additive and/or synergistic. My concern is that they're all toxic and more than likely, I suspect, there are some additivity plus or minus synergism. Q. So if I understand you, Dr. Wolf, you have an understanding generally	2 3 4 5 6 7 8 9	form. A. Hold on one second. Because I'm looking on my papers about an asbestos exposure, but those are not human studies. So my my brain says how I would test that, would be to give humans varying amounts of asbestos knowing what you're giving them and seeing who got cancer or not, and that study hasn't been done and can't be done. BY MS. BROWN: Q. And other than kind of your gut or your understanding about how cancer works,
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	Page 170		Page 172
1	this is in there and this is in there and	1	you're going to change your testimony from
2	this is in there, and what I mean is fibrous	2	earlier this morning?
3	talc, platy talc, heavy metal, irritating	3	MS. O'DELL: Object to the
4	fragrances, it doesn't matter to me how much	4	commentary. She's not changing her
5	asbestos is in there. If there's a sample of	5	testimony. She's referred to
6	baby powder that doesn't have asbestos in	6	Dr. Crowley numerous times in her
7	there, it doesn't matter, because all of	7	deposition thus far.
8	those other things also are carcinogenic or	8	BY MS. BROWN:
9	possibly carcinogenic or irritating and	9	Q. Dr. Wolf, you remember telling
10	inflammatory.	10	me this morning you didn't look at anybody's
11	BY MS. BROWN:	11	expert report before you wrote yours, right?
12	Q. So in forming your opinions in	12	A. Yes. But I was incorrect, and
13	this case, Dr. Wolf, it is not important to	13	I'm clarifying it now, because I did see
14	you to know the chemical composition of an	14	Dr. Crowley's report and I did see
15	individual bottle of talcum powder; is that	15	Dr. Longo's report.
16	right?	16	Q. Did you rely on Dr. Crowley's
17	MS. O'DELL: Object to the	17	report in forming the opinions in your
18	form.	18	report?
19	A. In women who use talcum powder	19	A. About the fragrances, yes.
20	on their perineum, if they're using it	20	Q. When did you see Dr. Crowley's
21	regularly, whatever however that is	21	report?
22	defined as once a day, once a week, twice a	22	A. Sometime before I turned my
23	day, over a period of years they're going to	23	report in so that I had time to review it.
24	be exposed to more than one bottle of baby	24	Q. Did you see a draft version of
	be exposed to more than one bottle of baby		Q. Bid you see a draft version of
	Page 171		Page 173
1	of talcum powder product. And so whether one	1	Dr. Crowley's report?
2	of those bottles did or did not have asbestos	2	A. I think I saw his final report.
3	in it doesn't matter to me.	3	Q. How many days did you spend
4	BY MS. BROWN:	4	reviewing Dr. Crowley's report?
5	Q. Because in your view, there are	5	MS. O'DELL: Object to the
6	other things in talcum powder that cause	6	form.
7	cancer?	7	A. I don't recall.
8	A. Because there are other things	8	BY MS. BROWN:
9	in talcum powder that are carcinogenic or	9	Q. What information did you use or
10	possibly carcinogenic, and if a woman has	10	rely on from Dr. Crowley's report?
11	used more than one bottle over her lifetime,	11	A. I can pull it up, but I believe
12	the chances are pretty high that one of those	12	you have a list of all of the things that
	the chances are protty high that one of these		J - 11 11 1
13	bottles did contain asbestos in addition to	13	were in there and looking at them, what they
			•
13	bottles did contain asbestos in addition to	13	were in there and looking at them, what they
13 14	bottles did contain asbestos in addition to the others.	13 14	were in there and looking at them, what they were what was known about all of the
13 14 15	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the	13 14 15	were in there and looking at them, what they were what was known about all of the different components.
13 14 15 16	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder	13 14 15 16	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify
13 14 15 16 17	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's	13 14 15 16 17	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of components of talcum powder?
13 14 15 16 17 18 19	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's my opinion that some of them are known	13 14 15 16 17 18	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of
13 14 15 16 17 18 19 20	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's my opinion that some of them are known irritants or can be inflammatory, and that	13 14 15 16 17 18 19	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of components of talcum powder? MS. O'DELL: Object to the form.
13 14 15 16 17 18 19 20 21	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's my opinion that some of them are known irritants or can be inflammatory, and that was from Dr. Crowley's report, which I did	13 14 15 16 17 18 19 20	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of components of talcum powder? MS. O'DELL: Object to the form. A. Such as? What are you
13 14 15 16 17 18 19 20 21 22	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's my opinion that some of them are known irritants or can be inflammatory, and that was from Dr. Crowley's report, which I did see before I wrote my report, his expert	13 14 15 16 17 18 19 20 21	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of components of talcum powder? MS. O'DELL: Object to the form.
13 14 15 16 17 18 19 20 21	bottles did contain asbestos in addition to the others. Q. Is it your opinion that the fragrances in Johnson & Johnson's baby powder cause ovarian cancer? A. No, I never stated that. It's my opinion that some of them are known irritants or can be inflammatory, and that was from Dr. Crowley's report, which I did	13 14 15 16 17 18 19 20 21 22	were in there and looking at them, what they were what was known about all of the different components. Q. Did you do anything to verify the accuracy of Dr. Crowley's list of components of talcum powder? MS. O'DELL: Object to the form. A. Such as? What are you suggesting?

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	Page 174		Page 176
1	independent expert witness, to check the list	1	Dr. Crowley's list, are you relying on the
2	that you received from Dr. Crowley?	2	presence of those in the baby powder product
3	MS. O'DELL: Object to the	3	to support your opinion that it increases a
4	form.	4	woman's risk of ovarian cancer?
5	A. I don't know how I could have	5	A. I believe it's one of the
6	done that because I didn't have the list of	6	things that could.
7	what was in there myself. And I don't	7	Q. So what I want to know is what
8	so and I don't do the testing myself. I	8	ingredients do you believe could increase a
9	relied on the expert, that he tested and	9	woman's risk of ovarian cancer, and then,
10	found those things in the report, in the	10	two, what scientific support you have for
11	fragrance or in the product, sorry.	11	that?
12	BY MS. BROWN:	12	MS. O'DELL: Excuse me. Object
13	Q. And is it your opinion that	13	to the form.
14	some of the elements on Dr. Crowley's list	14	A. I never said that those
15	increase a woman's risk of ovarian cancer?	15	ingredients themselves could increase the
16	A. No. It's my opinion that some	16	risk of ovarian cancer. What I'm saying is
17	of the ingredients on the list are	17	that some of the ingredients can be
18	inflammatory. And I know that inflammation	18	inflammatory. Inflammation is associated
19	plays a role in the development and	19	with development and progression of ovarian
20	progression of ovarian cancer.	20	cancer. Those fragrances on their own
21	Q. Are you relying on any	21	excuse me, in conjunction with all of the
22	scientific literature to support your	22	other components of talcum powder are
23	opinion, that some of the chemicals in	23	concerning to me.
24	Johnson & Johnson's baby powder cause an	24	
	Page 175		Page 177
1	inflammatory reaction that can lead to	1	BY MS. BROWN:
2	cancer?	2	Q. And what support do you have in
3	MS. O'DELL: Object to the	3	the scientific literature that would lead you
4	form.	4	to be concerned about the inflammatory
5	A. I'm relying on the literature	5	process you just described?
6	that says ovarian cancer is related to	6	A. Oh, in ovarian cancer?
7	inflammation, both development and	7	Q. No, with these chemicals, what
8	progression, and knowing that those are	8	support do you have the list of
9	inflammatory, I have a concern about them.	9	fragrances, what support do you have that
10	BY MS. BROWN:	10	those elements cause inflammation that could
11	Q. Do you have any scientific	11	lead to cancer in humans?
12	support that the chemicals in Johnson &	12	lead to cancer in humans? MS. O'DELL: Object to the
12 13	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in		
12 13 14	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings?	12	MS. O'DELL: Object to the form. A. I never said I had that
12 13 14 15	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the	12 13	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the
12 13 14 15 16	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form.	12 13 14 15 16	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are
12 13 14 15 16 17	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report	12 13 14 15 16 17	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that
12 13 14 15 16 17	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that	12 13 14 15 16	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that inflammation has plays a large role in
12 13 14 15 16 17 18 19	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that I'm assuming most of it was in animals, not	12 13 14 15 16 17	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that
12 13 14 15 16 17 18 19 20	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that I'm assuming most of it was in animals, not in humans. So I'd have to look at the	12 13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that inflammation has plays a large role in
12 13 14 15 16 17 18 19 20 21	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that I'm assuming most of it was in animals, not in humans. So I'd have to look at the report.	12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that inflammation has plays a large role in ovarian cancer and there's more and more papers suggesting that, and that this is one of the components of talcum powder product
12 13 14 15 16 17 18 19 20 21 22	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that I'm assuming most of it was in animals, not in humans. So I'd have to look at the report. BY MS. BROWN:	12 13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that inflammation has plays a large role in ovarian cancer and there's more and more papers suggesting that, and that this is one of the components of talcum powder product that I'm concerned about.
12 13 14 15 16 17 18 19 20 21	support that the chemicals in Johnson & Johnson's baby powder are inflammatory in human beings? MS. O'DELL: Object to the form. A. I'd have to look at the report of how they were all tested. I know that I'm assuming most of it was in animals, not in humans. So I'd have to look at the report.	12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. I never said I had that evidence. What I'm saying, is that the expert report says that many of them are inflammatory and that I know that inflammation has plays a large role in ovarian cancer and there's more and more papers suggesting that, and that this is one of the components of talcum powder product

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that those elements have been tested in human beings, have caused inflammation in human beings? MS. O'DELL: Object to the form. A. I would have to review his report again. My so I can't answer that question offhand. I would suspect that most beings. BY MS. BROWN: class you're relying on to support your form. MS. O'DELL: Object to the beings. Dr. Wolf, are you relying on a finding in animals of inflammation, to support your form. MS. O'DELL: Object to the form. MS. O'DELL: Object to the form. A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state inflammation in a proinflammatory state form. A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state form. MS. O'DELL: Object to the form. MS. O'DELL: Object to the form.	ces crease a
beings? MS. O'DELL: Object to the form. A. I would have to review his report again. My so I can't answer that question offhand. I would suspect that most of these were tested in animals, not in human beings. Q. Other than your understanding that some of the fragrances have been inflammatory in animals, is there anything else you're relying on to support your opinion, that the presence of the fragran in Johnson & Johnson's baby powder in woman's risk of ovarian cancer? MS. O'DELL: Object to the form. Q. For purposes of your opinion, Dr. Wolf, are you relying on a finding in animals of inflammation, to support your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the related to the development of ovarian cancer, I' and the progression of ovarian cancer, I' occurred about anything in talcum pow	ces crease a
MS. O'DELL: Object to the form. A. I would have to review his report again. My so I can't answer that question offhand. I would suspect that most of these were tested in animals, not in human beings. Py MS. BROWN: Q. For purposes of your opinion, The fact that I know that animals of inflammation, to support your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the that some of the fragrances have been inflammatory in animals, is there anything in stalcum pow else you're relying on to support your opinion, that the presence of the fragran op	ces crease a
form. A. I would have to review his report again. My so I can't answer that question offhand. I would suspect that most of these were tested in animals, not in human beings. Py MS. BROWN: Q. For purposes of your opinion, The fact that I know that animals of inflammation, to support your form. Py MS. O'DELL: Object to the animals of inflammation, to support your form. A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state and the progression of ovarian cancer, I' my MS. O'DELL: Object to the cancer? MS. O'DELL: Object to the form. A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state inflammation in a proinflammatory state and the progression of ovarian cancer, I' concerned about anything in talcum pow	ces crease a
A. I would have to review his report again. My so I can't answer that question offhand. I would suspect that most of these were tested in animals, not in human beings. BY MS. BROWN: Q. For purposes of your opinion, The fact that I know that animals of inflammation, to support your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the inflammation in a proinflammatory state cancer? MS. O'DELL: Object to the cancer? MS. O'DELL: Object to the cancer? MS. O'DELL: Object to the cancer. MS. O'DELL: Object to the concerned about anything in talcum powder co	ces crease a
report again. My so I can't answer that question offhand. I would suspect that most of these were tested in animals, not in human beings. Q. For purposes of your opinion, The fact that I know that animals of inflammation, to support your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the and the progression of ovarian cancer, I' opinion, that the presence of the fragran in Johnson & Johnson's baby powder in woman's risk of ovarian cancer? MS. O'DELL: Object to the form. A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state inflammation in a proinflammatory state and the progression of ovarian cancer, I' opinion that talcum powder causes ovarian for and the progression of ovarian cancer, I' concerned about anything in talcum powder	is
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9 of these were tested in animals, not in human 10 beings. 11 BY MS. BROWN: 12 Q. For purposes of your opinion, 13 Dr. Wolf, are you relying on a finding in 14 animals of inflammation, to support your 15 opinion that talcum powder causes ovarian 16 cancer? 17 MS. O'DELL: Object to the woman's risk of ovarian cancer? 18 woman's risk of ovarian cancer? 19 MS. O'DELL: Object to the use many strike of ovarian cancer? 10 MS. O'DELL: Object to the use many strike of ovarian cancer? 11 woman's risk of ovarian cancer? 12 A. I'm just reading the question again. The fact that I know that inflammation in a proinflammatory state related to the development of ovarian cancer, I'm and the progression of ovarian cancer, I'm concerned about anything in talcum power.	is
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animals of inflammation, to support your 14 inflammation in a proinflammatory state opinion that talcum powder causes ovarian 15 related to the development of ovarian cancer, I's and the progression of ovarian cancer, I's MS. O'DELL: Object to the 17 concerned about anything in talcum pow	
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16 cancer? 16 and the progression of ovarian cancer, I' 17 MS. O'DELL: Object to the 17 concerned about anything in talcum pow	ncer
they a Balance and the second anything in the conformed about any thing in	
, , ,	
10 product that would increase potentian	
19 A. No. What I'm relying on is 19 increase inflammation.	
20 let me clarify it. What I'm relying on is 20 BY MS. BROWN:	
21 that these cause inflammation, even if it's 21 Q. How have you made a	
in animals. They are part of the talcum 22 determination of how much of the fragra	nces
powder product and concerning to me, in 23 are present in the talcum powder product	
24 addition with all of the other parts of 24 A. I do not know that.	
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1 talcum powder that are concerning, asbestos, 1 Q. Isn't it important for you in	
2 fibrous tale, platy tale, heavy metals. 2 forming your opinion, to know the amo	ınt of
3 BY MS. BROWN: 3 exposure that a woman would get from	
4 Q. What support do you have that 4 fragrances in talcum powder?	
5 the inflammation you're referring to leads to 5 MS. O'DELL: Object to form.	
6 cancer? 6 A. I'm going to go back to what I	
7 MS. O'DELL: Object to the 7 said about asbestos and the amount. Fire	
	y the
8 form. 8 all, I don't know how you would quanti	
8 form. 8 all, I don't know how you would quanti 9 BY MS. BROWN: 9 amount when I don't know what a dose	s, how
9 BY MS. BROWN: 9 amount when I don't know what a dose	se, how
9 BY MS. BROWN: 10 Q. What I'm after is, where are 10 amount when I don't know what a dose 10 often someone uses it, how much they u	se, how And
9 BY MS. BROWN: 9 amount when I don't know what a dose 10 Q. What I'm after is, where are 10 often someone uses it, how much they used talcum powder product.	se, how And
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 19 amount when I don't know what a dose 10 often someone uses it, how much they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman	se, how And
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 19 amount when I don't know what a dose 10 often someone uses it, how much they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be	se, how And
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 9 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 the nin addition, each individual woman makeup, her response is going to be different. 12 different. 13 And so given that there isn't	se, how And
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 9 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 then in addition, each individual woman makeup, her response is going to be different. 12 different. 13 And so given that there isn't	se, how And
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 9 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be different. 13 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of	se, how And , her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 the list of that I can point to that says, using this 19 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 then in addition, each individual woman makeup, her response is going to be different. 12 different. 13 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of ovarian cancer and there's some concern	se, how And , her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 that I can point to that says, using this 19 agent it produced cancer, in this agent that 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to differ someone uses it, how much they to do ften someone uses it, how much they to differ someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften someone uses it, how much they to do ften som	se, how And , her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 that I can point to that says, using this 19 agent it produced cancer, in this agent that 20 ith a floor't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be different. 13 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of ovarian cancer and there's some concerning the produced cancer, in this agent that they increase inflammation, my concerning the produced cancer. But if they're that any amount is worrisome.	se, how And , her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 that I can point to that says, using this 19 agent it produced cancer, in this agent that 20 inflammatory, that's concerning enough to me, 21 BY MS. BROWN: 9 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be different. 13 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of ovarian cancer and there's some concerning agent it produced cancer, in this agent that 20 that any amount is worrisome. 21 BY MS. BROWN:	se, how And I, her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 that I can point to that says, using this 19 agent it produced cancer, in this agent that 20 inflammatory, that's concerning enough to me, 21 especially with ovarian cancer, that they 22 especially with ovarian cancer, that they 29 amount when I don't know what a dose 10 often someone uses it, how much they to 10 often someone uses it, how much they to 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be 13 makeup, her response is going to be 14 different. 15 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of ovarian cancer and there's some concern that agent it produced cancer, in this agent that 20 they increase inflammation, my concern that any amount is worrisome. 21 BY MS. BROWN: 22 especially with ovarian cancer, that they 23 Q. And the basis for your opinion	se, how And i, her
9 BY MS. BROWN: 10 Q. What I'm after is, where are 11 the scientific studies that say this 12 inflammation in an animal caused cancer, of 13 the list of fragrances Dr. Crowley opines on? 14 MS. O'DELL: Object to the 15 form, asked and answered. 16 A. Yeah, I believe I've already 17 answered that question. I don't have a study 18 that I can point to that says, using this 19 agent it produced cancer, in this agent that 20 inflammatory, that's concerning enough to me, 21 BY MS. BROWN: 9 amount when I don't know what a dose 10 often someone uses it, how much they to often someone uses it, how much they to often someone uses it, how much they to long they used talcum powder product. 11 long they used talcum powder product. 12 then in addition, each individual woman makeup, her response is going to be different. 13 And so given that there isn't testing of dosing to see if each of these individual things increases the risk of ovarian cancer and there's some concerning agent it produced cancer, in this agent that 20 that any amount is worrisome. 21 BY MS. BROWN:	se, how And I, her I that I is

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1	inflammation in animal models. True?	1	form.
2	MS. O'DELL: Object to the	2	A. I believe I've answered this
3	form.	3	question multiple times, that these fragrance
4	A. And more than that, that	4	ingredients, some of them cause inflammation,
5	inflammation can cause be one of the	5	at least in animals, that ovarian cancer, one
6	causes of ovarian cancer and this is	6	of the causes, is a proinflammatory state and
7	something that's in a product that has	7	inflammation can also enhance the progression
8	multiple things that have been associated	8	of ovarian cancer. And so if there's a
9	with increased inflammation and/or	9	product that I know contains one of the
10	carcinogenicity of the ovaries.	10	components can cause inflammation, and I
11	BY MS. BROWN:	11	don't know what level is safe, I don't know
12	Q. And tell me, Doctor, I	12	that I can answer that there's a safe level.
13	understand you believe that there is asbestos	13	BY MS. BROWN:
14	in baby powder, right, we talked about that?	14	Q. Are you familiar with talc
15	A. I have seen data to support	15	pleurodesis?
16	that there is asbestos in some baby powder	16	A. Yes.
17	product.	17	O. You understand that that is a
18	Q. And you have not made a	18	procedure in which tale is placed inside a
19	determination as to how much may be in baby	19	person's lung for its inflammatory response,
20	powder, correct? How much asbestos?	20	correct?
21	MS. O'DELL: Objection to the	21	A. So it's not placed in the lung.
22	form	22	It's placed in the pleura.
23	A. My concern is that I don't I	23	Q. Pleura. Right?
24	don't know specifically how much, and I don't	24	A. Yes.
21	don't know specifically now inden, and I don't		11. 103.
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1	really have a threshold of how much is safe.	1	Q. And the purpose of placing it
2	I'm concerned with any.	2	in the pleura is to initiate an inflammatory
3	BY MS. BROWN:	3	response, correct?
4	Q. And you've not made a	4	A. That's correct.
5	determination as to how much fragrance is in	5	Q. And that's, in fact, one of the
6	any individual bottle of baby powder,	6	reasons that talc is what's used in
7	correct?	7	pleurodesis because it produces in large
8	A. Well, an individual fragrance,	8	quantities, an inflammatory response, right?
9	no, I don't know.	9	A. So that is one of the reasons
10	Q. Is it your testimony that any	10	that talc has been used. It's not used very
11	amount, including trace levels of fragrances,	11	much anymore because a lot of ovarian cancer
12	can cause inflammation that lead to cancer?	12	patients get malignant pleural effusions.
13	MS. O'DELL: Objection to the	13	And so I've had a lot of personal experience
14	form.	14	in I'm not doing the pleurodesis myself,
15	A. I don't know how much of the	15	but referring, and most places for malignant
16	fragrances are required to cause	16	pleural effusions these days, they don't use
17	inflammation. Given that I don't know how	17	any kind of chemical pleurodesis. They put
18	much is safe, I'm concerned about any amount.	18	in a drain, that the patient can drain as
19	BY MS. BROWN:	19	needed when they're short of breath.
20	Q. But do you have scientific	20	Q. You, Doctor, have never
21	support for the fact that any amount of	21	performed talc pleurodesis; is that right?
22	fragrance can cause inflammation that leads	22	A. I have referred patients to my
23	to cancer?	23	colleagues to do it, but I haven't personally
24	MS. O'DELL: Object to the	24	done it.
. –	inc. o b bbbb. O ojeci io inc	T -	

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	Page 186		Page 188
1	Q. Part of your care as a	1	that IARC noted is that in certainly, talc
2	gynecological oncologist includes from time	2	pleurodesis causes an inflammatory response,
3	to time referring patients for talc	3	right?
4	pleurodesis; is that right?	4	A. Yes.
5	MS. O'DELL: Object to the	5	Q. And that those patients have
6	form.	6	been followed for decades, to see if that
7	A. Referring patients for	7	inflammatory response leads to cancer, right?
8	management of malignant pleural effusion.	8	A. Some of those patients.
9	And I would say that in the last 15, at	9	Q. And by and large have you
10	least, years, none of my patients have had	10	reviewed the epidemiology as it relates to
11	talc pleurodesis or any kind of chemical	11	patients who have undergone talc pleurodesis?
12	pleurodesis. They've all had drains placed.	12	A. Yes.
13	BY MS. BROWN:	13	Q. And you would agree with IARC,
14	Q. And you're not a pulmonologist,	14	that the conclusions are that talc
15	right, Doctor?	15	pleurodesis does not cause cancer. True?
16	A. I'm not a pulmonologist.	16	MS. O'DELL: Object to the
17	Q. You are not the primary person	17	form.
18	that patients go to when they're suffering	18	A. So my interpretation of the
19	from diseases of the pleura like	19	literature on that, is that it's a most of
20	mesothelioma, correct?	20	the time it's a one-time application of talc.
21	MS. O'DELL: Object to the	21	Many of those patients have a terminal
22	form.	22	disease and don't live long enough to know
23	A. No.	23	what happens down the road. Some of them
24		24	have been followed a long time, but the talc
	Page 187		Page 189
1	BY MS. BROWN:	1	pleurodesis, it happens once, maybe twice,
2	Q. And so whether or not talc	2	but it's not a repeated application of talc.
3	pleurodesis is and remains the standard of	3	BY MS. BROWN:
4	care at a number of institutions treating	4	Q. Have you attempted to quantify
5	patients with mesothelioma is not something	5	the difference between how much talc is
6	that you necessarily know; is that fair?	6	applied to the mesothelial cells of the
7	MS. O'DELL: Object to the	7	pleura versus how much talc could enter a
8	form.	8	woman's body from perineal use?
9	A. I would say it's my	9	MS. O'DELL: Object to the
10	understanding that in general, talc	10	form.
11	pleurodesis is not as common as it used to	11	A. I haven't done that. I'm not
12	be.	12	sure how you could do that, unless you
13	BY MS. BROWN:	13	measured how much a woman used over time.
14	Q. And you would agree with me,	14	BY MS. BROWN:
15	Doctor, that talc pleurodesis is something	15	Q. You would agree with me that in
16	that IARC considered in reviewing the	16	the pleurodesis context, talc causes an
17	literature on talc, right?	17	inflammatory response that does not cause
18	MS. O'DELL: Object to the	18	cancer, right?
	towns What als we are a swample and vious	19	MS. O'DELL: Object to the
19	form. Which monograph are you	1	
19 20	referring to?	20	form.
19 20 21	referring to? BY MS. BROWN:	21	A. I would agree that it causes an
19 20 21 22	referring to? BY MS. BROWN: Q. On talc.	21 22	A. I would agree that it causes an acute inflammatory response, that's why it's
19 20 21	referring to? BY MS. BROWN:	21	A. I would agree that it causes an

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		,	
	Page 190		Page 192
1	time we don't know the patients don't live	1	A. I believe that talc, as well as
2	long enough to know if there's any effect.	2	many inert materials can migrate to the
3	In the patients that have lived long and have	3	ovaries.
4	been followed, there hasn't seen an increase	4	Q. What other inert materials can
5	risk of cancer, but again, it's a one-time	5	migrate to the ovaries?
6	application.	6	A. Dead sperm, carbon particles,
7	BY MS. BROWN:	7	radioactive material that's been studied.
8	Q. And in terms of how much of	8	Q. Are you aware
9	the one-time application, how much talc gets	9	A. Menstrual blood that flows
10	into a person's body, that's not something	10	retrograde.
11	you know, right?	11	Q. What about particles from the
12	A. No, because I think that if a	12	exterior of the vagina? Are you aware of any
13	woman's using it, I don't know how much she's	13	evidence that those particles can migrate to
14	using over time. And although maybe one time	14	the ovaries?
15	using it in the perineum is less than the	15	A. So I want to say it's in one
16	amount used for talc pleurodesis, if somebody	16	of the animal studies. There is definitely
17	uses talcum powder product in their peroneum	17	inflammation of the genital tract with
18	daily, monthly, weekly for years, I don't	18	perineal application of rats from talc. It's
19	know how that relates to what's used in a	19	not necessarily a migration study.
20	one-time talc pleurodesis.	20	Q. So my question is, do you have
21	Q. Right. You don't have any	21	any scientific support that particles on the
22	information or any basis to compare the	22	exterior of the vagina can migrate up the
23	amount of talc that's injected into a person	23	genital tract to the ovaries?
24	who's getting talc pleurodesis with the	24	MS. O'DELL: Object to the
	Page 191		Page 193
1	amount of talc that may or may not migrate up	1	form.
2	the genital track to the ovaries. True?	2	A. So I don't know how to say
3	MS. O'DELL: Object to the	3	this. Because of the position of the
4	form.	4	perineum, because of the opening of the
5	A. What I'm saying is that I can't	5	vagina, because of the opening of the cervix,
6	compare the two. It's certainly not bottles	6	unless a woman has cervical stenosis, and the
7	of talcum powder that multiple bottles	7	opening of the fallopian tubes, unless she
8	that are used in pleurodesis.	8	has her tubes tied or removed, it's an open
9	BY MS. BROWN:	9	tract from the outside up through the vagina
10	Q. Do you know how many grams of	10	and to the ovaries in humans. Some animals
11	talcum powder are used in talc pleurodesis?	11	not, but in humans. And it's generally
12	A. I don't remember offhand.	12	accepted in the gynecologic community and by
13	Q. Have you attempted to quantify	13	the FDA that migration occurs.
14	how much talcum powder could ascend the	14	BY MS. BROWN:
15	genital tract through perineal dusting?	15	Q. And I understand in connection
16	MS. O'DELL: Object to the	16	with your report on page 10, you cite to a
17	form.	17	number of studies that support your opinion;
18	A. Are you asking me have I	18	is that right?
19	personally done that?	19	A. That's correct.
20	BY MS. BROWN:	20	Q. And none of these studies
21	Q. Well, in connection with your	21	involve studying whether talcum powder
22	opinion I assume your opinions in this	22	applied outside of the vagina can travel up
23	case are based on a belief that talc can	23	to the ovaries; is that right?
1		l .	_
24	migrate to the ovaries. True?	24	A. That's correct, in these

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	Page 194		Page 196
1	studies.	1	MS. O'DELL: Object to the
2	Q. And in fact, none of these	2	form.
3	studies investigate whether any particle	3	A. So there was a concern for
4	applied outside of the vagina can travel up	4	that. I think we talked about that earlier.
5	to the ovaries. True?	5	BY MS. BROWN:
6	A. Not no, that's correct.	6	Q. I'm talking about the epi that
7	Q. And, in fact, there is no	7	looked at women who had used, with their
8	evidence in the scientific community at all,	8	partners, talc-dusted condoms and you know
9	that would show a talcum powder particle	9	that epi shows no increased risk of ovarian
10	outside of the vagina traveling up to the	10	cancer, right?
11	ovaries; that investigation has not been	11	MS. O'DELL: Object to the
12	done, correct?	12	form.
13	MS. O'DELL: Objection to the	13	A. So just because those
14	form.	14	studies okay. I'm going to say okay, yes.
15	A. So the studies that I have	15	BY MS. BROWN:
16	quoted for referenced for migration are	16	Q. How did that body of
17	not talcum powder. There are other inert	17	epidemiology, how did you take that into
18	substances. The studies on talcum powder	18	account in forming your opinion in this case?
19	were not on the perineum in the vagina, but	19	MS. O'DELL: Object to the
20	there's there's no reason to think or	20	form.
21	believe, and from my perspective and from the	21	A. So I mean, I'm going to say
22	perspective of the gynecologic community,	22	that it's a piece of the information, but
23	that any inert substance couldn't travel from	23	when I look at all of the information as a
24	the outside up into the ovaries. In fact,	24	whole, as in epidemiology as far as talcum
	Page 195		Page 197
1	it's been known for decades, that if a woman	1	powder product exposure, the weight of the
2	has that system blocked in some way, if her	2	evidence suggests that there is an increased
3	tubes are tied or her tubes are removed or	3	risk of ovarian cancer with genital talcum
4	she's had a hysterectomy, that reduces her	4	powder application.
5	risk of ovarian cancer. And before there was	5	BY MS. BROWN:
6	any hint of what might be coming from the	6	Q. Did you in considering the
7	outside, the hypothesis in the medical	7	epidemiology that looked at women whose
8	community, at least in the gynecologic	8	partners had used talc-dusted condoms, did
9	community, is that it's an external substance	9	you weight that epidemiology differently than
10	that gets to the ovaries.	10	some of the other studies you considered?
11	And the fact that that could	11	MS. O'DELL: Object to the
12	happen is based on the fact that all of these	12	form.
13	other things that are known to travel back	13	A. So I'm going to say that the
14	from the outside. And if something's on the	14	studies I gave the most weight to in the epi
15	outside, it can be pushed up into the inside	15	review, were those that were larger, newer
16	through the vagina by intercourse, by going	16	meta-analysis or a prospective of the cohort
17	to the bathroom, by wiping, by having	17	studies.
18	riding a bike, by exercising, by walking.	18	BY MS. BROWN:
	And I think that's that's where I'm going	19	Q. I think one of the ones you
19	Third I think that 5 that 5 where I'm going		
	to stop.	20	pointed us to was Cramer 2016, right?
19		20 21	pointed us to was Cramer 2016, right? A. Yes.
19 20	to stop.	1	
19 20 21	to stop. BY MS. BROWN:	21	A. Yes.
19 20 21 22	to stop. BY MS. BROWN: Q. And you know that none of the	21 22	A. Yes. Q. And you know that and how

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	Page 198		Page 200
1	A. So I believe he didn't see a	1	A. If I know it. I don't always
2	difference. I have to look at the paper	2	know.
3	again. Some of them they saw a difference if	3	Q. The date of the publication
4	the tubes were tied and some of them they	4	with a preference for more recent studies?
5	didn't and I can't remember.	5	A. Yes.
6	MS. O'DELL: If you need to	6	Q. Okay. And anything else that
7	take a look at the paper.	7	went into your determination that
8	BY MS. BROWN:	8	Dr. Cramer's 2016 study was high quality?
9	Q. Let's take a look at the paper	9	MS. O'DELL: Other than what
10	and refresh you on what Dr. Cramer found, and	10	she said previously.
11	I'll ask you some questions about that.	11	A. And also all of the different
12	A. 2016. This one.	12	potential cofactors that are evaluated.
13	Q. That's going to be this one.	13	BY MS. BROWN:
14	Doctor, I want to direct you to page 339, and	14	Q. By "cofactors that are
15	we'll mark it as an exhibit. This will be	15	evaluated," do you mean that the author
16	Wolf 11, Dr. Cramer's 2016 article. And I	16	controlled for confounders?
17	think you stated in your report that this was	17	A. Or at least looked at other
18	an article that you found to be of	18	things that might have an impact.
19	particularly high quality; is that right?	19	Q. And one of the things you know
20	A. Yes.	20	that Dr. Cramer found on page 339, is that
21	(Deposition Exhibit 11 marked	21	there was a statistically significant
22	for identification.)	22	increased risk in women who had had their
23	BY MS. BROWN:	23	tubes tied who had used talcum powder, right?
24	Q. And what what's your	24	A. (Nods head.)
	Page 199		Page 201
1	definition of a "high-quality case-control	1	Q. Do you see that?
2	study"?	2	A. Yes, I see that.
3	A. So I looked at the size of the	3	Q. Okay. And that's the opposite
4	study, the I was trying to focus on the	4	of what you would expect, based on your
5	newer studies just because this would be more	5	opinion and theory. True?
6	related to talcum powder products in the last	6	MS. O'DELL: Object to the
7	20 or 30 years. Dr. Cramer has expertise in	7	form.
8	this area. This is something that he studied	8	A. If we knew when they had their
9	before. And he also looked at multiple	9	tubes tied. Did they have their tubes tied
10	multiple how often the talc was used and	10	before they started using talcum powder, or
11	multiple factors that might influence whether	11	after, or when?
12	there was an impact.	12	BY MS. BROWN:
13	Q. So as I understand you,	13	Q. Well, in any event, what you
14	Dr. Wolf, the factors you considered in	14	would expect, Doctor, is that the finding in
1 -	deeming that a study was, quote/unquote, high	15	a woman who had her tubes tied should show
15		1	less of a relative risk than in those who did
15 16	quality, include looking at the number of	16	less of a relative fisk than in those who did
	quality, include looking at the number of people studied; is that right?	16	not have their tubes tied, based on your
16	1 0		
16 17	people studied; is that right? A. Uh-huh.	17	not have their tubes tied, based on your theory of migration. True?
16 17 18	people studied; is that right? A. Uh-huh. Q. The author of the study,	17 18	not have their tubes tied, based on your theory of migration. True? MS. O'DELL: Object to the
16 17 18 19	people studied; is that right? A. Uh-huh.	17 18 19	not have their tubes tied, based on your theory of migration. True? MS. O'DELL: Object to the form.
16 17 18 19 20	people studied; is that right? A. Uh-huh. Q. The author of the study, correct?	17 18 19 20	not have their tubes tied, based on your theory of migration. True? MS. O'DELL: Object to the form.
16 17 18 19 20 21	people studied; is that right? A. Uh-huh. Q. The author of the study, correct? A. Uh-huh.	17 18 19 20 21	not have their tubes tied, based on your theory of migration. True? MS. O'DELL: Object to the form. A. Only if those tubes were tied

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	Page 202		Page 204
1	BY MS. BROWN:	1	MS. O'DELL: Object to the
2	Q. And you know Dr. Cramer did an	2	form.
3	analysis of that as well, right?	3	A. I'm not sure. I would if
4	A. I don't know that he was able	4	the only way that they might get cancer from
5	to.	5	an ovary is from migration, yes. Unless
6	Q. What he said, as you recall, is	6	their tubes weren't adequately tied.
7	that the number of women who only used talcum	7	However, if the talc got to their ovaries
8	powder after their tubes were tied were too	8	from another source through inhalation, then
9	small to even analyze, right?	9	there may still be some confounding and some
10	A. That's the answer	10	increased risk.
11	(Simultaneous discussion	11	BY MS. BROWN:
12	interrupted by reporter.)	12	Q. Is it your opinion, Doctor,
13	MS. O'DELL: Give me a chance.	13	that talc can get to a woman's ovaries
14	If you need to look at the paper,	14	through inhalation?
15	don't don't assume based on what	15	A. Yes.
16	the question is.	16	Q. Have you considered the
17	(Witness reviews document.)	17	findings of the epidemiology as it relates to
18	BY MS. BROWN:	18	body-only powder use?
19	Q. Doctor, you would agree that,	19	MS. O'DELL: Object to the
20	based on your theory of migration, you would	20	form.
21	expect to see a significantly decreased risk	21	A. Yes.
22	in women who had a tubal ligation. True?	22	BY MS. BROWN:
23	MS. O'DELL: Doctor, feel free	23	Q. And what have those studies, by
24	to continue to refresh yourself before	24	and large, shown?
	to continue to remesh yoursen octore		<i>5</i> /
	Page 203		Page 205
1	you answer any questions.	1	Page 205 A. That it's that there's no
1 2		1 2	
	you answer any questions.		A. That it's that there's no
2	you answer any questions. A. I just want to read the I	2	A. That it's that there's no carcinogenicity.
2 3	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll	2 3	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and
2 3 4	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question.	2 3 4	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer
2 3 4 5	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.)	2 3 4 5	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct?
2 3 4 5 6	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written	2 3 4 5 6	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes.
2 3 4 5 6 7	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article.	2 3 4 5 6 7	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the
2 3 4 5 6 7 8	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN:	2 3 4 5 6 7 8	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that
2 3 4 5 6 7 8	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw	2 3 4 5 6 7 8	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN:
2 3 4 5 6 7 8 9	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move	2 3 4 5 6 7 8 9	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that
2 3 4 5 6 7 8 9 10	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move on. I understand you want to spend some time	2 3 4 5 6 7 8 9 10	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that epidemiology in forming your opinion that a woman might be exposed to talcum powder through inhalation?
2 3 4 5 6 7 8 9 10 11 12	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move on. I understand you want to spend some time with the study and we can do that on a break.	2 3 4 5 6 7 8 9 10 11 12	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that epidemiology in forming your opinion that a woman might be exposed to talcum powder
2 3 4 5 6 7 8 9 10 11 12 13	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move on. I understand you want to spend some time with the study and we can do that on a break. MS. O'DELL: She's about to	2 3 4 5 6 7 8 9 10 11 12 13	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that epidemiology in forming your opinion that a woman might be exposed to talcum powder through inhalation?
2 3 4 5 6 7 8 9 10 11 12 13 14	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move on. I understand you want to spend some time with the study and we can do that on a break. MS. O'DELL: She's about to answer your question.	2 3 4 5 6 7 8 9 10 11 12 13 14	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that epidemiology in forming your opinion that a woman might be exposed to talcum powder through inhalation? MS. O'DELL: Object to the form. A. I'm not sure how those two
2 3 4 5 6 7 8 9 10 11 12 13 14	you answer any questions. A. I just want to read the I want to look at one more thing and then I'll answer your question. (Witness reviews document.) A. I can't find it in the written part of the article. BY MS. BROWN: Q. Doctor, I'm going to withdraw the question because I really do want to move on. I understand you want to spend some time with the study and we can do that on a break. MS. O'DELL: She's about to answer your question. A. I mean, it basically says that	2 3 4 5 6 7 8 9 10 11 12 13 14	A. That it's that there's no carcinogenicity. Q. The epidemiology shows, by and large, no increased risk of ovarian cancer with body-only use of talcum powder, correct? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. How did you consider that epidemiology in forming your opinion that a woman might be exposed to talcum powder through inhalation? MS. O'DELL: Object to the form.
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	Page 206		Page 208
1	potential more of a potential for a woman	1	case report, do you have any other support in
2	to be exposed from inhaling talcum powder	2	the scientific literature that a woman using
3	when she puts it in her underwear than if	3	talcum powder perineally would be exposed via
4	she's using it on her chest?	4	inhalation?
5	A. I don't know.	5	A. Hang on one second.
6	Q. Have you evaluated how much	6	(Witness reviews document.)
7	talcum powder a woman using body-use-only	7	A. I'm looking at my report and my
8	would be exposed to?	8	references, but they don't specifically talk
9	MS. O'DELL: Object to the	9	about perineal application and inhalation.
10	form.	10	All I'm saying, to answer your first
11	A. I know that body-use-only does	11	question, to go back a few, is that your
12	not increase carcinogenicity	12	question was, if somebody had their tubes
13	carcinogenesis, I'm sorry. But I'm not	13	tied before they ever used talcum powder,
14	ruling out that someone who routinely daily	14	would that negate any increased risk of
15	uses it on the perineum couldn't also have	15	ovarian cancer? And my answer was, if the
16	inhalation exposure.	16	tubes were tied, it couldn't migrate up, but
17	BY MS. BROWN:	17	there's still the possibility that she could
18	Q. And what support do you have in	18	have it from inhalation. That's all I'm
19	the scientific literature for that opinion?	19	saying.
20	A. I would say the finding of talc	20	BY MS. BROWN:
21	in lymph nodes is one potential pelvic	21	Q. And I want to know what support
22	lymph nodes near the ovary, although the	22	you rely on in forming the opinion that a
23	pelvic lymph nodes could also come from the	23	woman could inhale talcum powder that could
24	ovary in the other direction. I mean,	24	reach her ovaries and cause ovarian cancer?
	Page 207		Page 209
1	migration could lead to tale in pelvic lymph	1	A. I'm going to talk say that
2	nodes.	2	talcum powder has been found not only in the
3	Q. What you're referring to is a	3	lymph nodes but in the ovaries of women, both
4	case report from 2007 that by Dr. Cramer?	4	who report using and not using perineal
5	A. Yes.	5	talcum powder.
6	Q. Okay. Did you know that	6	Q. So you're talking about the
7	Dr. Cramer was an expert witness for the	7	Heller study, right?
8	plaintiffs?	8	A. Yes.
9	A. I did.	9	Q. Okay. How does the fact that
10	Q. Did you consider Dr. Cramer's	10	talcum powder has been potentially found in
11	work as an expert witness in evaluating and	11	the ovaries of women who did not report using
12	reaching the determination that his 2016	12	talcum powder, support your view that a woman
13	paper was high quality?	13	could inhale talcum powder from perineal use
13 14	paper was high quality? A. No.	13 14	could inhale talcum powder from perineal use and have that powder reach her ovaries and
13 14 15	paper was high quality? A. No. Q. The fact that Dr. Kramer is	13 14 15	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer?
13 14 15 16	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum	13 14 15 16	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea
13 14 15 16 17	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your	13 14 15 16 17	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries
13 14 15 16 17 18	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your evaluation of his 2016 article; is that	13 14 15 16 17 18	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries through inhalation.
13 14 15 16 17 18 19	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your evaluation of his 2016 article; is that right?	13 14 15 16 17 18 19	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries through inhalation. Q. And did you read the findings
13 14 15 16 17 18 19 20	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your evaluation of his 2016 article; is that right? A. No.	13 14 15 16 17 18 19 20	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries through inhalation. Q. And did you read the findings of that study as it related to whether or not
13 14 15 16 17 18 19 20 21	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your evaluation of his 2016 article; is that right? A. No. MS. O'DELL: Object to the	13 14 15 16 17 18 19 20 21	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries through inhalation. Q. And did you read the findings of that study as it related to whether or not the talcum powder that was allegedly found in
13 14 15 16 17 18 19 20 21 22	paper was high quality? A. No. Q. The fact that Dr. Kramer is being paid by plaintiffs' lawyers in talcum powder litigation did not affect your evaluation of his 2016 article; is that right? A. No. MS. O'DELL: Object to the form.	13 14 15 16 17 18 19 20 21 22	could inhale talcum powder from perineal use and have that powder reach her ovaries and cause cancer? A. To me it just supports the idea that talcum powder can get to the ovaries through inhalation. Q. And did you read the findings of that study as it related to whether or not the talcum powder that was allegedly found in the ovary induced an inflammatory response?
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	Page 210		Page 212
1	A. So sometimes there was an	1	response or not. But what I'm going to tell
2	inflammatory response and sometimes not, is	2	you, I'm reading their entire results.
3	my recollection.	3	BY MS. BROWN:
4	BY MS. BROWN:	4	Q. I promise you I will point it
5	Q. Okay. Let's take a look at the	5	out to you. I don't want to waste time.
6	paper.	6	This is going to be the first thing we do
7	A. Okay.	7	when we come back.
8	MS. O'DELL: We've been going	8	Is it your testimony, based on
9	about an hour and a half. It's 12:45.	9	talc causing an inflammatory response, that
10	MS. BROWN: If we could finish	10	leads to cancer?
11	Heller, then we can take a break.	11	A. Yes.
12	MS. O'DELL: What do you	12	Q. And so how when talc a
13	anticipate on Heller?	13	talc particle is found, would you expect it
14	MS. BROWN: Ten minutes.	14	to show an inflammatory response?
15	MS. O'DELL: Okay. Is ten	15	A. What I'm trying to say is, that
16	minutes okay with you, Doctor?	16	I don't know the timing of the talc being
17	THE WITNESS: Uh-huh.	17	placed and looking at the specimen, was the
18	BY MS. BROWN:	18	entire specimen looked at. When you look at
19	Q. Thanks, Doctor.	19	pathology slides, you look at a little piece
20	A. So it doesn't look like they	20	of the tissue. You don't generally look at
21	looked at inflammation.	21	the entire tissue. And so it could be that
22	Q. Hold on one second. And one of	22	the area that was looked at did not show
23	the things you know that this	23	inflammation and in an area that wasn't in
24	MS. O'DELL: Are you going to	24	the slide did show inflammation.
	Page 211		Page 213
1	mark an exhibit?	1	Q. In your opinion, can talc be in
2			
	MS. BROWN: Uh-huh.	2	the ovaries and not cause inflammation?
3	BY MS. BROWN:	3	the ovaries and not cause inflammation? A. No, that's not what I'm saying.
3 4	BY MS. BROWN: Q. I'm trying to find it. We'll	3 4	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't
3 4 5	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you,	3 4 5	the ovaries and not cause inflammation? A. No, that's not what I'm saying.
3 4 5 6	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that	3 4 5 6	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary.
3 4 5	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence	3 4 5	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break
3 4 5 6 7 8	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence of a foreign body reaction. Do you remember	3 4 5 6 7 8	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break and have lunch and we'll come back and
3 4 5 6 7 8 9	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence of a foreign body reaction. Do you remember that?	3 4 5 6 7 8	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break and have lunch and we'll come back and finish Heller, which I will mark.
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3 4 5 6 7 8 9 10 11 12 13 14 15	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence of a foreign body reaction. Do you remember that? MS. O'DELL: Object to the form. A. That's not anywhere in the results. BY MS. BROWN: Q. I'll show it to you. We'll	3 4 5 6 7 8 9 10 11 12 13 14 15	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break and have lunch and we'll come back and finish Heller, which I will mark. MS. O'DELL: Okay. THE VIDEOGRAPHER: Going off the record. The time is 12:44 p m. (Recess taken from 12:44 p m. to 1:41 p m.) THE VIDEOGRAPHER: Back on the
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence of a foreign body reaction. Do you remember that? MS. O'DELL: Object to the form. A. That's not anywhere in the results. BY MS. BROWN: Q. I'll show it to you. We'll take a break and I'll show it to you. Would that be important for you to consider? MS. O'DELL: Object to the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break and have lunch and we'll come back and finish Heller, which I will mark. MS. O'DELL: Okay. THE VIDEOGRAPHER: Going off the record. The time is 12:44 p m. (Recess taken from 12:44 p m. to 1:41 p m.) THE VIDEOGRAPHER: Back on the record. The time is 1:41 p m. (Deposition Exhibit 12 marked for identification.)
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	BY MS. BROWN: Q. I'm trying to find it. We'll take a break and I can find it for you, Doctor. But you know that they reported that the talc that was found did not show evidence of a foreign body reaction. Do you remember that? MS. O'DELL: Object to the form. A. That's not anywhere in the results. BY MS. BROWN: Q. I'll show it to you. We'll take a break and I'll show it to you. Would that be important for you to consider? MS. O'DELL: Object to the form. A. I'm going to say not necessarily, because it depends on did they look at the entire ovary, depends on the	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the ovaries and not cause inflammation? A. No, that's not what I'm saying. I'm saying you might not see it if you don't look at the entire specimen, the entire ovary. MS. BROWN: Let's take a break and have lunch and we'll come back and finish Heller, which I will mark. MS. O'DELL: Okay. THE VIDEOGRAPHER: Going off the record. The time is 12:44 p m. (Recess taken from 12:44 p m. to 1:41 p m.) THE VIDEOGRAPHER: Back on the record. The time is 1:41 p m. (Deposition Exhibit 12 marked for identification.) BY MS. BROWN: Q. Dr. Wolf, I'm handing you what I've marked as Exhibit 12 to your deposition, and which is the article by Heller from 1996

54 (Pages 210 to 213)

	Page 214		Page 216
1	Q. And this is	1	keep moving.
2	MS. O'DELL: Excuse me, do you	2	(Witness reviews document.)
3	have a copy for me?	3	A. Okay. Sorry, this one does not
4	MS. BROWN: Sorry.	4	talk they don't mention any whether
5	BY MS. BROWN:	5	they even looked for inflammation.
6	Q. This is one of the articles	6	MS. O'DELL: Dr. Wolf, for the
7	that you pointed me to in support of your	7	record, you were referring to
8	opinion that talc particles can migrate to	8	Henderson '71?
9	the ovaries, correct?	9	THE WITNESS: Yes.
10	A. Yes.	10	BY MS. BROWN:
11	Q. Okay. And you would agree with	11	Q. So to be clear for the record,
12	me, though, that this study looked at whether	12	then, Dr. Wolf, in Heller '96 the case that
13	or not the talc particles that they allegedly	13	they reported on found no evidence of a
14	found were causing an inflammatory response,	14	response to talc, correct?
15	right?	15	MS. O'DELL: Object to the
16	MS. O'DELL: Object to the	16	form.
17	form.	17	A. They looked at one out of 24
18	A. Well, in in reading that	18	cases and in that one case, they did not see
19	full paragraph, they looked at one of the	19	a response to talc.
20	specimens for an inflammatory response, out	20	BY MS. BROWN:
21	of 24.	21	Q. And you have no evidence that
22	BY MS. BROWN:	22	there was anything different in the other 23
23	Q. And the conclusion was that	23	cases. True?
24	there was no evidence of a response to talc,	24	MS. O'DELL: Object to the
	Page 215		Page 217
1	such as foreign body giant cell reactions or	1	form.
2	fibrosis in the tissue, right?	2	A. I don't have any evidence on
3	A. In one out of 24.	3	the other 23 cases.
4	Q. That wasn't my question. That	4	BY MS. BROWN:
5	was their finding, right?	5	Q. And in the Henderson article
6	MS. O'DELL: Object to the	6	that you just pointed us to, there's
7	form.	7	similarly no evidence about whether or not
8	A. Their finding in one out of 24.	8	there was an inflammatory reaction. True?
9	BY MS. BROWN:	9	A. It doesn't look like they
10	Q. Do you have evidence that in	10	looked.
11	the other 23 they saw evidence of an	11	Q. And the way we got started
12	inflammatory reaction to talc?	12	talking about and you would agree, based
13	A. I don't have any evidence that	13	on the pleurodesis studies, that it is
14	they looked at the other 23.	14	possible for talc to cause an inflammatory
15	Q. Do you have any evidence at all	15	reaction that does not lead to cancer. True?
16	that talc found in the ovary produces an	16	A. In the talc in pleurodesis
17	inflammatory response?	17	studies, that's an acute reaction. The
18	A. Yes.	18	inflammation that is concerning to lead to
19	Q. And what's that?	19	cancer is a chronic reaction, not an acute
20	A. So I'm going to look at	20	reaction.
21	THE WITNESS: Can I get	21	Q. And how what do you rely on
22	Henderson? Two thousand 1971.	22	for how much exposure to talc takes someone
23	BY MS. BROWN:	23	from a chronic in an acute inflammatory
	BY MS. BROWN: Q. I have it here. Let's just	23 24	from a chronic in an acute inflammatory response to a chronic inflammatory response?

	Page 218		Page 220
1	MS. O'DELL: Object to the	1	A. I know he was doing some
2	form.	2	research and I wanted to hear from him about
3	A. What do I rely on for how much	3	what exactly he was looking at, how he was
4	exposure of talc? Exposure to talc over	4	studying it and what his plans were to try to
5	time, can lead to a chronic response, chronic	5	investigate in an in vitro way, the mechanism
6	inflammatory response. If you're looking	6	by which talc can cause ovarian cancer.
7	under the microscope at an ovary or something	7	Q. Would you agree that the
8	that has talc in it, in that slide you may or	8	mechanism or the proposed mechanism by which
9	may not see an inflammatory response, either	9	talc can cause ovarian cancer, is not well
10	acute or chronic, for several reasons. One,	10	understood today?
11	that if the talc has been there a long time,	11	MS. O'DELL: Object to the
12	you might be not be looking when you see	12	form.
13	obvious inflammatory response either acute or	13	A. I would agree that there are
14	chronic. The second is that you might not be	14	several lines of evidence, including all of
15	looking at every part of the specimen, to	15	the body of Dr. Saed's work, as well as
16	determine if it's just the section that	16	Dr. Shukla's paper and Dr. Buz'Zard's paper,
17	you're looking at.	17	that suggest that inflammation plays a role
18	BY MS. BROWN:	18	in the carcinogenesis of talcum powder
19	Q. Have you attempted to quantify	19	product to cause ovarian cancer. And that
20	how much exposure over time leads to the	20	the most recent work from Dr. Saed's lab,
21	chronic inflammation you were just	21	which he's not the first author but the
22	describing?	22	senior author, shows that there's a dose
23	MS. O'DELL: Object to the	23	response for the amount of talc and that it's
24	form.	24	not just inflammation that secondarily causes
	Page 219		Page 221
1	A. When I look at the literature	1	genetic changes, but there's actual genetic
2	as a whole, again, going back to the	2	changes in the cells that can be
3	epidemiology literature that attempted to	3	carcinogenic.
4	look at dose response, it seems like the	4	BY MS. BROWN:
5	that several of the studies suggests that	5	Q. You testified earlier, I
6	more doses, and I'm putting that in quotes	6	believe, that the opinion that talc particles
7	because it's not measured, it's not a	7	can migrate to the ovaries is well accepted
8	specific amount, but more exposure increases	8	in the medical community. Do you remember
9	the risk of ovarian cancer. And so my	9	that?
10	inference from that, from putting the whole	10	A. That migration of inert
11	of the literature together, is that the	11	substances is well accepted in the medical
12	longer the more the dose, the more likely	12	community and, in fact, by the FDA.
13	the more inflammation and more cell damage,	13	Q. And would you consider that to
14	inflammation causing an oxidative response	14	include talcum powder?
15	that then can lead down to DNA damage and, in	15	A. I would.
16	fact, in Saed's most recent abstract genetic	16	Q. And, in fact, you state in your
17	changes from talc.	17	report on page 17, that, "The evidence
18	BY MS. BROWN:	18	supporting migration is robust and
	Q. You billed time to the	19	universally accepted by the gynecologic
19	~		aamminuter !!
19 20	plaintiff's lawyers for speaking to Dr. Saed;	20	community."
19 20 21	plaintiff's lawyers for speaking to Dr. Saed; is that right?	21	Right?
19 20 21 22	plaintiff's lawyers for speaking to Dr. Saed; is that right? A. Yes.	21 22	Right? A. Yes.
19 20 21	plaintiff's lawyers for speaking to Dr. Saed; is that right?	21	Right?

56 (Pages 218 to 221)

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MC OIDELL OL: 11 1		Page 224
MS. O'DELL: Object to the	1	BY MS. BROWN:
form.	2	Q. And you would agree with me,
A. So my sentence here says	3	Doctor, that all of the information you cite
"within the gynecologic community."	4	on pages 10 and 11 was available to the
BY MS. BROWN:	5	International Agency for Research on Cancer
Q. Did you mean to exclude the	6	in 2010. True?
international research on cancer?	7	MS. O'DELL: Object to the
MS. O'DELL: Object to the	8	form.
form.	9	A. I'd have to look at everything
A. No. I'm saying that my	10	that they reviewed to see if they reviewed
sentence here says it's universally accepted	11	all of that.
within the gynecologic community.	12	BY MS. BROWN:
BY MS. BROWN:	13	Q. I'm handing you what we've
Q. Were you aware that it's	14	marked as Exhibit 15.
rejected by IARC?	15	(Deposition Exhibit 13 marked
MS. O'DELL: Object to the	16	for identification.)
form.	17	BY MS. BROWN:
A. My understanding is that it's	18	Q. And I want to start by
not rejected, that in that report that you're	19	directing your attention to page
referring to, which I think is the 2010	20	MS. BROWN: I'm sorry, we have
report, that they that the evidence that	21	a copy for you, Counsel.
they looked at, they said that it was weak,	22	BY MS. BROWN:
not rejected.	23	Q. This is IARC monograph on talc,
	24	2010, and I want to start by directing your
Page 223	1	Page 225
		attention to page 33, under the section entitled "Mechanistic and other relevant
		data."
		MS. O'DELL: What page?
		THE WITNESS: Thirty-three.
		MS. BROWN: Sorry, is that 13?
· · · · · · · · · · · · · · · · · · ·		I may have mismarked it.
		MS. O'DELL: That says that's
		15.
•		A. 15.
	11	MS. BROWN: Should be 13.
•		We'll correct it.
		A. Do you want it back?
form.	14	BY MS. BROWN:
		Q. Yeah, sorry. Thank you,
before, I used all of the information as a	16	Doctor. Handing back to you what is
whole, to determine my opinion and my and	17	Exhibit 13.
when I look at the bulk of the evidence and	18	MS. BROWN: Thank you, Alexis.
with my experience and with what I know about	19	BY MS. BROWN:
with my experience and with what I know about	1 1	
· ·	20	O. And I want to direct your
gynecology, there's multiple lines of	20 21	Ş
gynecology, there's multiple lines of evidence that show that migration of inert	21	attention to page 33. And this IARC
gynecology, there's multiple lines of	1	
	BY MS. BROWN: Q. Did you mean to exclude the international research on cancer? MS. O'DELL: Object to the form. A. No. I'm saying that my sentence here says it's universally accepted within the gynecologic community. BY MS. BROWN: Q. Were you aware that it's rejected by IARC? MS. O'DELL: Object to the form. A. My understanding is that it's not rejected, that in that report that you're referring to, which I think is the 2010 report, that they that the evidence that they looked at, they said that it was weak, not rejected. Page 223 BY MS. BROWN: Q. And have you looked at any additional evidence, other than that which IARC considered, which leads you to believe that it's universally accepted? A. I'd have to look at everything that IARC looked at and compare it to what I looked at to say if it's different. Q. Well, what was your methodology in terms of considering the International Agency for Research on Cancer's conclusion that the evidence for migration is weak? MS. O'DELL: Object to the form. A. You know, I as I've stated before, I used all of the information as a	BY MS. BROWN: Q. Did you mean to exclude the international research on cancer? MS. O'DELL: Object to the form. A. No. I'm saying that my sentence here says it's universally accepted within the gynecologic community. BY MS. BROWN: Q. Were you aware that it's rejected by IARC? MS. O'DELL: Object to the form. A. My understanding is that it's not rejected, that in that report that you're referring to, which I think is the 2010 report, that they that the evidence that they looked at, they said that it was weak, not rejected. Page 223 BY MS. BROWN: Q. And have you looked at any additional evidence, other than that which IARC considered, which leads you to believe that it's universally accepted? A. I'd have to look at everything that IARC looked at and compare it to what I looked at to say if it's different. Q. Well, what was your methodology in terms of considering the International Agency for Research on Cancer's conclusion that the evidence for migration is weak? MS. O'DELL: Object to the form. A. You know, I as I've stated before, I used all of the information as a

57 (Pages 222 to 225)

	Page 226		Page 228
1	A. Yes.	1	you employed to arrive at a conclusion that
2	Q. Okay. And you are aware that	2	is diametrically opposed to the one IARC
3	IARC considers the strength of the evidence	3	wrote about in 2010?
4	as it relates to a proposed mechanism for	4	MS. O'DELL: Object to the
5	cancer, correct?	5	form.
6	A. Yes.	6	A. I don't I don't believe it's
7	Q. Okay. And you see here on	7	diametrically opposed and I believe that when
8	page 33 that IARC evaluates those, using	8	I reviewed all of the evidence and from my
9	terms such as "weak," "moderate" or "strong,"	9	own knowledge of gynecology and practicing
10	correct?	10	and my expertise in the last 30 years and
11	A. Yes.	11	seeing multiple patients with endometriosis
12	Q. Okay. And IARC, if you would	12	and evidence of retrograde menstruation, that
13	turn to page 411, evaluated the data as it	13	my opinion is that migration occurs. And
14	relates to migration, right?	14	that I believe that it's the opinion of the
15	MS. O'DELL: Object to the	15	general gynecology community that migration
16	form.	16	does occur. And another reputable
17	BY MS. BROWN:	17	institution is the FDA, who says that the
18	Q. And I'll direct you, excuse me,	18	ability for particulates to migrate is
19	Doctor	19	indisputable.
20	A. Are you directing me to	20	BY MS. BROWN:
21	something specific on this page?	21	Q. And what you're referring to is
22	Q. I am.	22	the 2014 citizen's petition, right?
23	A. Okay.	23	A. Yes.
24	Q. I'll direct you to the one,	24	Q. And do you find that to be a
	Page 227		Page 229
1	two, three fourth paragraph that begins	1	reliable authority on the review of the
2		1	3
	with "Perineal exposure."	2	literature regarding talc and ovarian cancer?
3	A. Okay.	2 3	literature regarding talc and ovarian cancer? A. This is not regarding
3 4	÷		
	A. Okay.	3	A. This is not regarding
4	A. Okay.Q. And you see that IARC reports	3 4	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can
4 5	A. Okay. Q. And you see that IARC reports on its review of the studies on potential	3 4 5	A. This is not regarding necessarily regarding talc and ovarian
4 5 6	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True?	3 4 5 6	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital
4 5 6 7	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes.	3 4 5 6 7	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on
4 5 6 7 8	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC	3 4 5 6 7 8	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that.
4 5 6 7 8 9	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence	3 4 5 6 7 8	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two
4 5 6 7 8 9	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes.	3 4 5 6 7 8 9	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the
4 5 6 7 8 9 10	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest	3 4 5 6 7 8 9 10	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right?
4 5 6 7 8 9 10 11	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes.	3 4 5 6 7 8 9 10 11 12	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct?	3 4 5 6 7 8 9 10 11 12 13 14 15	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer,
4 5 6 7 8 9 10 11 12 13	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of
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4 5 6 7 8 9 10 11 12 13 14 15 16 17	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes. Q. And you believe IARC is a reputable international health agency, right? A. Yes.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as authoritative and reputable?
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes. Q. And you believe IARC is a reputable international health agency, right? A. Yes. Q. And so you considered its	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes. Q. And you believe IARC is a reputable international health agency, right? A. Yes. Q. And so you considered its conclusion, that the evidence for retrograde	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as authoritative and reputable? MS. O'DELL: Object to the form.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes. Q. And you believe IARC is a reputable international health agency, right? A. Yes. Q. And so you considered its conclusion, that the evidence for retrograde migration is weak, right?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as authoritative and reputable? MS. O'DELL: Object to the form. A. Yes.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Okay. Q. And you see that IARC reports on its review of the studies on potential migration. True? A. Yes. Q. And on balance, what the IARC working group concluded was that the evidence for retrograde transport of talc to the ovaries in normal women is weak, right? A. Yes. Q. And that is their lowest classification of mechanistic evidence, correct? A. Yes. Q. And you believe IARC is a reputable international health agency, right? A. Yes. Q. And so you considered its conclusion, that the evidence for retrograde	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. This is not regarding necessarily regarding talc and ovarian cancer. It's the idea that things can migrate from the perineum through the genital tract. That's what I based my opinion on that. Q. We're talking about two different things. You just referenced the 2014 response to a citizen's petition, right? A. Yes. Q. And do you and in that response, the FDA went through its review of the literature on talc and ovarian cancer, correct? A. Yes. Q. And do you regard that as authoritative and reputable? MS. O'DELL: Object to the form.

58 (Pages 226 to 229)

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	Page 230		Page 232
1	you're pointing to, is the FDA's statement	1	response to the citizen's petition by the FDA
2	that particles can migrate from the perineum	2	in 2014?
3	in the vagina to the peritoneal cavity,	3	A. I'm sure I did.
4	correct?	4	Q. And, in fact, as support for
5	A. That's correct.	5	your opinion that talc applied on the
6	Q. And the FDA, of course, doesn't	6	exterior of the vagina can migrate to the
7	cite to any evidence that talc can migrate	7	ovaries, you referenced a sentence from that
8	from the exterior of the vagina to the	8	letter, right?
9	ovaries, correct?	9	A. That's correct.
10	MS. O'DELL: Object to the	10	Q. Okay. But we agree that the
11	form. If you're pointing going to	11	FDA was talking about particles generally,
12	point Dr. Wolf to a particular part of	12	correct?
13	the letter, then I would ask you to	13	MS. O'DELL: Object to the
14	show it to her.	14	form.
15	MS. BROWN: Absolutely.	15	A. The FDA was talking about
16	MS. O'DELL: So if you need to	16	particulates in general.
17	see the letter	17	BY MS. BROWN:
18	A. Yeah, let me see the letter.	18	Q. Okay. And did you review, and
19	MS. O'DELL: to respond to	19	I'll hand you what we've marked as
20	the question, please ask for it.	20	Exhibit 14, the entirety of what the FDA had
21	BY MS. BROWN:	21	to say about the epidemiology and the
22	Q. I'm going to show you the	22	evidence as it relates to talc and ovarian
23	letter and I want to talk about it, but you	23	cancer?
24	raised the statement about the particles,	24	cancer:
	raised the statement about the particles,		
	Page 231		Page 233
1	right?	1	(Deposition Exhibit 14 marked
2	MS. O'DELL: She did. But she	2	for identification.)
3	doesn't have to answer questions about	3	MS. O'DELL: Object to the
4	the letter aside from what she said.	4	form.
5	MS. BROWN: I'm not talking	5	(Witness reviews document.)
6	MS. O'DELL: If you want to ask	6	A. You asked me if I reviewed the
7	specific questions about the letter	7	entire thing as to their opinion. And the
8	MS. BROWN: I'm going to show	8	answer is yes. And what did you
9	her the letter.	9	BY MS. BROWN:
10	MS. O'DELL: Then show her the	10	Q. That was the only question.
11	1	11	· · · · · · · · · · · · · · · · · · ·
	letter.	1	A. That was the only question.
12		12	J 1
	MS. BROWN: Okay. But I can	1	Q. All right. And you'll agree on
12		12	* *
12 13	MS. BROWN: Okay. But I can ask lead-up questions about the letter.	12 13	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data
12 13 14	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right.	12 13 14	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a
12 13 14 15	MS. BROWN: Okay. But I can ask lead-up questions about the letter.	12 13 14 15	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the
12 13 14 15 16	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to	12 13 14 15 16	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right?
12 13 14 15 16 17	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In	12 13 14 15 16 17 18	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the
12 13 14 15 16 17 18	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions,	12 13 14 15 16 17 18 19	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form.
12 13 14 15 16 17 18 19 20	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions, counsel asked if you need the letter,	12 13 14 15 16 17 18 19 20	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form. BY MS. BROWN:
12 13 14 15 16 17 18 19 20 21	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions, counsel asked if you need the letter, please ask for it and I'm sure she'll	12 13 14 15 16 17 18 19 20 21	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what the FDA said?
12 13 14 15 16 17 18 19 20 21 22	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions, counsel asked if you need the letter, please ask for it and I'm sure she'll provide it to you.	12 13 14 15 16 17 18 19 20 21 22	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what the FDA said? A. That's what the letter says.
12 13 14 15 16 17 18 19 20 21 22 23	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions, counsel asked if you need the letter, please ask for it and I'm sure she'll provide it to you. BY MS. BROWN:	12 13 14 15 16 17 18 19 20 21 22 23	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what the FDA said? A. That's what the letter says. Q. That was the FDA's sentence in
12 13 14 15 16 17 18 19 20 21	MS. BROWN: Okay. But I can ask lead-up questions about the letter. MS. O'DELL: Right. MS. BROWN: It doesn't have to MS. O'DELL: Let me finish. In order to answer any of the questions, counsel asked if you need the letter, please ask for it and I'm sure she'll provide it to you.	12 13 14 15 16 17 18 19 20 21 22	Q. All right. And you'll agree on the first page, third paragraph, the FDA concludes that it did not find that the data submitted presented conclusive evidence of a causal association between talc used in the perineal area and ovarian cancer, right? MS. O'DELL: Object to the form. BY MS. BROWN: Q. That's what the FDA said? A. That's what the letter says.

59 (Pages 230 to 233)

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	Page 234		Page 236
1	in April of 2014, correct?	1	MS. O'DELL: Excuse me. Object
2	A. Yes.	2	to the form. Give me just a minute to
3	Q. And you, Dr. Wolf, disagree	3	object. Fair enough. Sorry.
4	with that. True?	4	A. Additionally, the
5	A. I do.	5	meta-analysis, the Penninkilampi study that
6	Q. Okay. And so what methodology	6	was published in 2017.
7	did you employ to distinguish your review of	7	BY MS. BROWN:
8	the literature from the Food and Drug	8	Q. And that didn't include any new
9	Administration's review?	9	information, though, right? It's a
10	A. The first thing is, is that I	10	meta-analysis of old data. True?
11	have more literature to support my opinion	11	A. Of all of the data, some of
12	that was not yet available for the FDA.	12	which wasn't available when the FDA wrote
13	Q. And so tell me what that is,	13	this letter.
14	Doctor.	14	Q. Sure. But if we're trying to
15	A. So all of the there are	15	identify new data that you, Dr. Wolf, are
16	three of the case report studies that I have	16	relying on that the FDA didn't have, we have
17	referenced in my article: Wu and Cramer and	17	three case-control studies and an unpublished
18	Schildkraut. And, in fact, Schildkraut was	18	manuscript by a plaintiffs' expert?
19	an NCI-sponsored study of African-American	19	MS. O'DELL: Object to the
20	women and use of talcum powder and risk of	20	excuse me, object to the form,
21	ovarian cancer. And after it's been	21	misstates her testimony.
22	published, the NCI did update their talcum	22	A. There's also two of the three
23	powder on ovarian cancer, to say that this	23	cohort studies, the Nurses Health and Women's
24	study has shown that it increases risk of	24	Health Initiative, the Sister Study. The
	Page 235		Page 237
1	ovarian cancer in African-American women.	1	Women's Health Initiative was published in
2	And then the meta-analysis Penninkilampi 2018	2	2014, so they wouldn't have had it, likely
3	was not available. The recent abstracts and	3	wouldn't have, and the Sister Study.
4	now paper from Dr. Saed on causation was not	4	BY MS. BROWN:
5	available.	5	Q. And what was the finding as it
6	Q. So the three case-control	6	relates to an increased talc use in ovarian
7	studies that you believe distinguish your	7	cancer in the Sister Study?
8	review of the literature from the FDA's are	8	A. The Sister Study did not find a
9	Wu 2015, Cramer 2016, and Schildkraut 2016,	9	statistically significant increase, one of
10	correct?	10	the issues with all of the three cohort
11	A. Yes.	11	studies is none of them are large enough to
12	Q. In addition to a is it a	12	detect a difference and none of them looked
13	published paper by Dr. Saed?	13	at use over time.
14	A. It's accepted for publication	14	Q. Well, we're going to talk about
15	and there's four abstracts.	15	that. But you'd agree that the Sister Study
16	Q. Okay. Has it been published	16	and the follow-up to the Nurses Health Study
17	yet, to your knowledge?	17	would not have changed the opinion of the
18	A. It hasn't yet been published.	18	FDA, that there's not a causative link twine
	Q. Okay. So in addition to the	19	talcum powder and ovarian cancer
19		20	MS. O'DELL: Object to the
19 20	three case-control studies, there is an		
	three case-control studies, there is an unpublished paper by a plaintiffs' expert in	21	form.
20		1	form. BY MS. BROWN:
20 21	unpublished paper by a plaintiffs' expert in	21	

60 (Pages 234 to 237)

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	Page 238		Page 240
1	indirectly they might have if they had had	1	subtype, right? And I'll direct you to Table
2	the meta-analysis by Penninkilampi, because	2	3 for that.
3	in that meta-analysis of the cohort studies	3	MS. O'DELL: Just for you to
4	there was a statistical significantly	4	orient yourself, Doctor.
5	increase in serous carcinoma, which is the	5	THE WITNESS: Got it.
6	most common type of epithelial ovarian	6	A. Which Schildkraut?
7	cancer, that if you were going to find	7	BY MS. BROWN:
8	something in those number of women, serous	8	Q. 2016.
9	would be the most likely that you would find	9	A. 2016.
10	a significant increase when they looked at	10	MS. BROWN: I'll give you a
11	all of the cohort studies together.	11	copy right now.
12	Q. Now, of course Wu, the other	12	A. So it does show a
13	study that you pointed us to, found a greater	13	significant in nonserous.
14	increase in the nonserous cancers, right?	14	BY MS. BROWN:
15	THE WITNESS: Do you have Wu	15	Q. Right. And that's not
16	for me to review?	16	consistent with some of the other studies,
17	MS. O'DELL: Yeah.	17	like Penninkilampi that you were talking
18	A. Yeah, it's not here.	18	about earlier, correct?
19	BY MS. BROWN:	19	A. Well, what I was specifically
20	Q. I'll give you a copy, Doctor.	20	talking about Penninkilampi was the cohort
21	So we'll mark Wu as Exhibit 14.	21	studies, finding a statistical significantly
22	(Deposition Exhibit 15 marked	22	increase in serous cancers. If you look at
23	for identification.)	23	all of the studies, varying often it's
24		24	serous. It doesn't have to be serous. Some
	Page 239		Page 241
1	BY MS. BROWN:	1	of the other studies found an increase in
2	Q. I'll direct you to page 1414,	2	endometrioid borderline tumors, other cell
3	which is the "Subgroup Analysis by Histologic	3	types of ovarian tumors.
4	Type."	4	Q. Is it your opinion, Doctor,
5	MS. BROWN: Counsel, I have a	5	that talcum powder use perineally increases a
6	copy for you. Page 1414. I have two,	6	woman's risk of all different histologic
7	actually.	7	types of ovarian cancer?
8	A. This must not be the right	8	A. Well, I'm going to say that
9	paper either. There's no page 1414.	9	we're looking at epithelial ovarian cancer,
10	MS. BROWN: Wrong	10	and I don't have any evidence that has any
11	A. Because there's a couple of	11	effect on stromal tumors or dermal cell
12	Wu's.	12	tumors. I think of all of the epithelial
13	BY MS. BROWN:	13	subtypes, that it's been shown to have in
14	Q. Yeah, there's two. We'll	14	some studies, in various studies, an increase
15	remark it. This is it. No, this is another	15	in serous or endometrioid. And the other
16	Wu. I misspoke, Doctor. I meant to point	16	subtypes are usually so small that there's
17	you to Schildkraut 2016, which is another	17	probably enough to know statistical
18	study that you identified as high quality,	18	significance, such as clear cell or mucinous.
19	right?	19	In this study by Schildkraut, it's just
20	A. Yes.	20	serous or nonserous. They don't break up the
21	Q. We'll mark that, as was my	21	other subtypes, at least in this table.
22	intention, as 14. And you know one of the	22	Q. And the finding of the
23	findings of Schildkraut was a greater	23	nonserous increased risk is not consistent
24	association with the nonserous histologic	24	with Penninkilampi's finding on that score,

61 (Pages 238 to 241)

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	Page 242		Page 244
1	correct?	1	BY MS. BROWN:
2	MS. O'DELL: Object to the	2	Q. Sure. As a scientist
3	form.	3	evaluating data on cancer, the longer folks
4	A. In the cohort studies, it was	4	are studied, the more available information
5	serous. That was statistically significant.	5	there is. True?
6	The two are not one does not negate the	6	MS. O'DELL: Object to the
7	other. What I'm saying is that any of the	7	form.
8	epithelial varying tumors could possibly be	8	A. That's true.
9	increased, any cell type. This one shows	9	BY MS. BROWN:
10	nonserous. The meta-analysis of the cohorts	10	Q. And in evaluating the body of
11	showed serous, even though, except for the	11	literature on talc and ovarian cancer, you
12	first report of the Nurses Health Study there	12	wouldn't want to close your eyes to some of
13	wasn't any statistical increase in the cohort	13	the studies that include additional
14	studies, one does not negate the other.	14	follow-up. True?
15	BY MS. BROWN:	15	MS. O'DELL: Object to the
16	Q. Gates was a follow-up to	16	form.
17	Gertig's	17	A. I don't.
18	A. Gertig yeah.	18	BY MS. BROWN:
19	(Simultaneous discussion	19	Q. Did you know that Penninkilampi
20	interrupted by reporter.)	20	does not include the Gates study?
21	BY MS. BROWN:	21	A. So I'm going to look at that
22	Q. Gates was a follow-up to	22	paper again to see why he might have left
23	A. Gertig	23	he or she left the Gates study out.
24	MS. O'DELL: If you would let	24	Q. And for the record, we'll mark
	<u> </u>		
	Page 243		
	1 agc 213		Page 245
1	her finish and vice versa, I'll do my	1	Page 245 Penninkilampi as Exhibit 16 your deposition.
1 2	her finish and vice versa, I'll do my best not to interrupt you.	1 2	Penninkilampi as Exhibit 16 your deposition. (Deposition Exhibit 16 marked
	her finish and vice versa, I'll do my		Penninkilampi as Exhibit 16 your deposition. (Deposition Exhibit 16 marked for identification.)
2 3 4	her finish and vice versa, I'll do my best not to interrupt you. BY MS. BROWN: Q. Dr. Wolf, Gates was a follow-up	2	Penninkilampi as Exhibit 16 your deposition. (Deposition Exhibit 16 marked for identification.) BY MS. BROWN:
2	her finish and vice versa, I'll do my best not to interrupt you. BY MS. BROWN: Q. Dr. Wolf, Gates was a follow-up of the cohort that was followed in the Gertig	2 3	Penninkilampi as Exhibit 16 your deposition. (Deposition Exhibit 16 marked for identification.) BY MS. BROWN: Q. And to help with your review,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	her finish and vice versa, I'll do my best not to interrupt you. BY MS. BROWN: Q. Dr. Wolf, Gates was a follow-up of the cohort that was followed in the Gertig Nurses Health Study, correct? A. That's correct. Q. And when that cohort was followed longer in Gates, there was no association with serous cancer, correct? A. That's correct. Q. And do you agree that it's important, when evaluating a body of literature, to evaluate all available information? A. Yes. Q. And particularly as it relates to the follow-up of individuals who were initially studied for perhaps a shorter period of time. Fair? MS. O'DELL: Object to the form. A. So long-term follow-up is	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Penninkilampi as Exhibit 16 your deposition. (Deposition Exhibit 16 marked for identification.) BY MS. BROWN: Q. And to help with your review, Doctor, if you want to, take as much as you need, but page 46 lists the name of the studies that are included and Table A was the meta-analysis for ever use in ovarian cancer. And you agree with me that Gates 2010 is not included? MS. O'DELL: Feel free to take a look at the paper before you answer the questions, Doctor. A. I see that it was not included. BY MS. BROWN: Q. And in writing your report and identifying Gates as one of the higher quality studies, were you aware at the time that Gates had omitted the follow-up to the Nurses Health Study as published in Gates 2010? MS. O'DELL: Object to the form
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62 (Pages 242 to 245)

	Page 246		Page 248
1	she referred to Gates as a	1	BY MS. BROWN:
2	high-quality study in her report.	2	Q. So your critique of the Berge
3	MS. BROWN: Let me rephrase.	3	paper is that there's not a subgroup analysis
4	That's my fault.	4	by histologic type?
5	BY MS. BROWN:	5	MS. O'DELL: Object to the
6	Q. In writing your report and	6	form.
7	identifying Penninkilampi as one of the	7	A. That's that wasn't a
8	higher quality studies, were you aware that	8	critique, it's a piece of information. That
9	Penninkilampi excluded the Gates 2010	9	differently from the Penninkilampi study,
10	follow-up to the Nurses Health Study?	10	which was looking specifically at serous
11	A. Given that they left it out or	11	histology of the cohorts, the Berge study
12	they didn't include it, to me it doesn't	12	didn't look at serous from the cohort
13	negate that I think the Penninkilampi study	13	separately, they looked at serous overall
14	is a good study. I was trying to see if	14	separately. It's just a difference. It's
15	there was a reason why they didn't look at it	15	not a critique.
16	and I don't see anything mentioned in their	16	BY MS. BROWN:
17	methods or in their discussion or their	17	Q. So one of the things that
18	results as to why they did not include it. I	18	Penninkilampi looked at was whether ever use
19	still think the Penninkilampi is a good	19	of talc increases the risk for ovarian
20	study.	20	cancer.
21	Q. Okay. And you are not at all	21	A. Yes.
22	concerned would you weigh Penninkilampi	22	Q. Do you understand that?
23	less, given the fact that it did not include	23	A. Yes.
24	the most complete data from the Nurses	24	Q. And that is the same question
	the most complete data from the realises		4
	Page 247		Page 249
1	Health?	1	that was investigated by Berge, correct?
2	MS. O'DELL: Object to form.	2	A. Yes.
3	A. I'm I can't answer that	3	Q. And Penninkilampi excluded the
4	question because I don't know what the data	4	most recent data on the Nurses Health cohort
5	would look like if they included the study.	5	and Berge included it, correct?
6	BY MS. BROWN:	6	A. Yes.
7	Q. Well, did you review the Berge	7	MS. O'DELL: Object to the
8	analysis, the meta-analysis that was done	8	form.
9	close to the same time?	9	A. And in ever use of talc in the
10	A. Yes.	10	cohort studies, both of them found no
11	Q. Okay. And were you aware that	11	nothing, no significant increase.
12	Berge actually did include Gates as the most	12	In the Penninkilampi study,
13	recent representation of the Nurses Health	13	which I understand does not include the Gates
14	cohort? We'll mark the Berge meta-analysis	14	data, when they looked specifically at the
15	as Exhibit 17.	15	cohort studies, there was a significant
16	(Deposition Exhibit 17 marked	16	increase in serous.
17	for identification.)	17	In the Berge study when they
	(Witness reviews document.)	18	looked at everything, case-control and
18	(**************************************		
18 19	A. So what I don't see in the	19	cohorts together, there was a significant
		19 20	cohorts together, there was a significant increase in the risk for serous histology.
19	A. So what I don't see in the		increase in the risk for serous histology. BY MS. BROWN:
19 20	A. So what I don't see in the Berge paper is if they separated out serous	20	increase in the risk for serous histology. BY MS. BROWN:
19 20 21	A. So what I don't see in the Berge paper is if they separated out serous for the cohort studies. They looked at	20 21	increase in the risk for serous histology. BY MS. BROWN:
19 20 21 22	A. So what I don't see in the Berge paper is if they separated out serous for the cohort studies. They looked at serous separately in the study. What I don't	20 21 22	increase in the risk for serous histology. BY MS. BROWN: Q. I'm sorry, say that last part

63 (Pages 246 to 249)

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2		Page 250		Page 252
A. — what I'm reading here is, there is a significant increase in serous histology. Q. In the case-control studies, correct? A. I don't see that they separated out the case-control studies. Q. In reviewing the Berge and Penninkilampi meta-analyses, did you pay at attention to the tests for heterogeneity that the authors did in terms of which studies could and could not be combined? A. In which study are you asking me abour? I'm sorry. I'm still distracted by the Berge one here. Q. Do you understand the concept of heterogeneity in meta-analysis? A. Yes. Page 251 Q. And in evaluating the Penninkilampi meta-analysis, did you undertake an effort to evaluate the heterogeneity of the studies what you're asking me? A. An and compare the two, is that what you're asking me? A. And compare the two, is that what you're asking me? A. Yes. Page 251 A. Yes. Page 251 Q. And I want to understand your meta-analysis, did you undertake an effort to evaluate the heterogeneity of the studies determination Penninkilampi is one of the more high-quality studies? A. Yes. Page 251 A. Yes. Page 251 A. And compare the two, is that what you're asking me? Q. Sure. Here's what I'm after, Doctor. I understand that you made a determination Penninkilampi is one of the more high-quality studies? A. Yes. A. Yes. Page 251 MS. O'DELL: Object to the form. A. Subwen I look at all of the meta-analyses, they all show a significant increase in the risk of ovarian cancer with minimal use of falcum powder use. I and was a pocifically chose the Penninkilampi one vovarian cancer is based on the body of vovarian cancer is based on the body	1	O. Uh-huh.	1	BY MS. BROWN:
there is a significant increase in serous histology. Q. In the case-control studies, correct? A. I don't see that they separated out the case-control studies. Penninkilamp ineta-analyses, did you pay attention to the tests for heterogeneity that the authors did in terms of which studies by the Berge one here. A. In which study are you asking to by the Berge one here. Q. Do you understand the concept of the testoregeneity meta-analysis? A. Yes. Page 251 Q. And in evaluating the combined, and in evaluating meta-analysis, did you understand the studies that there are certain studies that can because of their study design cannot be combined, correct? A. Yes. Page 251 Q. And in evaluating the combined in those two meta-analysis, did you undertake an effort to evaluate the heterogeneity in the studies that ware combined in those two meta-analyses, did you understand that what you're asking me? Q. Sure. Here's what I'm after, Doctor. I understand that you made a determination Penninkilampi is one of the more high-quality studies? A. Yes. Page 251 MS. O'DELL: Object to the form. MS. O'DEL is the beginning of disk 3. Back on the record. The time is 2:21 p m. to expect the previous of the previous	2	-	2	Q. Even though it excludes the
histology. Q. In the case-control studies, correct? A. I don't see that they separated a out the case-control studies. Q. In reviewing the Berge and penninkilampi meta-analyses, did you pay attention to the tests for heterogeneity that the authors did in terms of which studies could and could not be combined? A. In which study are you asking me about? I'm sorry. I'm still distracted by the Berge one here. Q. Do you understand the concept of heterogeneity in meta-analysis? Q. Okay. And so you understand that there are certain studies that can— because of their study design cannot be combined, correct? Q. And in evaluating the Penninkilampi meta-analysis and the Berge meta-analysis, did you understad e evaluate the heterogeneity of the studies that were combined in those two meta-analyses? A. And compare the two, is that what you're asking me? Q. Sure. Here's what I'm after, Doctor. I understand that you made a determination Penninkilampi is one of the more high-quality studies? A. Yes. Page 251 MS. O'BELL: Object to the form. A. I specifically chose it because if ste most recent one. BY MS. BROWN: A. I shay to look at the exact date. MS. O'DELL: Object to the form. A. I specifically chose it because it ste most recent one. BY MS. BROWN: A. I have to look at the exact date. MS. BROWN: MS. BROWN: MS. BROWN: MS. BROWN: A. I have to look at the exact date. MS. BROWN: THE VIDEOGRAPHER: Going off the record. The time is 2:26 p m. BY MS. BROWN: Page 251 Page 251 Page 251 Page 251 Page 251 Page 251 A. And one evaluating the record. The time is 2:26 p m. BY MS. BROWN: A. That's in this one. Page 42. Q. Dr. Wolf, before we took a break, we were discussing the difference between Penninkilampi as a higher quality studies? A. Yes. MS. O'DELL: Where are you reading? A. Wish. BROWN: Q. The time is 2:26 p m. BY MS. BROWN: Q. Dr. Wolf, before we took a break, we were discussing the difference between Penninkilampi an a rice. A. That's in this one. Page 42. Q. And in the first paragraph on the ele	3		3	
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	Page 254		Page 256
-	Page 254		Page 256
1	of these have been retrospective case-control	1	biostatistician, correct?
2	studies prone to recall bias."	2	A. No.
3	Do you see that?	3	Q. Okay. Did you perform a power
4	A. I see that.	4	calculation on any of the studies that you
5	Q. And do you agree with that,	5	reviewed?
6	Doctor, that most of the case-control studies	6	A. I did not, but Dr. Narod
7	that you evaluated and that form the body of	7	published a paper where he actually looked at
8	epidemiology on talc and ovarian cancer are	8	that question and estimated that it would
9	prone to recall bias?	9	take about 200,000 women to answer the
10	MS. O'DELL: Object to the	10	question, and none of these studies have
11	form.	11	that.
12	A. I don't agree with that	12	Q. And have you calculated how
13	statement. I do agree that one concern of	13	many women were studied in all of the
14	case-control studies is recall bias. I	14	prospective studies and whether or not that
15	believe that was acknowledged in most, if not	15	was more or less than 200,000?
16	all, of the case-control studies and felt not	16	A. Well, if you look at all of
17	to be an issue. And I looked at that, but	17	them together, putting them together, there
18	the weight of the evidence suggests that most	18	are more than 200,000.
19	of the studies showed a relationship.	19	Q. And did that inform your
20	Also in a rare disease like	20	opinion that the prospective studies how
21	ovarian cancer, although a prospective study	21	did you consider that fact in making the
22	would be might be give us more	22	statement that the cohort studies are limited
23	information, the number of women and the	23	by a lack of power?
24	amount of time that it would take to do a	24	A. Because each individual study
	Page 255		Page 257
1	prospective study makes it challenging, and	1	is limited by lack of power. And two of the
2	that's one of the challenges with all of the	2	three studies are limited by the amount of
3	cohort studies. None of them are big enough	3	follow-up and all of the studies are limited
4	and most of them are not followed long	4	by the documentation of how much how often
5	enough.	5	and how frequent powder was used. The
6	And so case-control studies are	6	short of the Sister Study, the primary
7	what the best way to study a rare disease	7	endpoints of the Nurses Health Study and the
8	like this. And given the consistency in the	8	Women's Health Study were not to look at the
9	findings, although recall bias can occur, I	9	relationship of talc and ovarian cancer. It
10	don't believe it after my review of the	10	was a secondary add-on study that was done
11	entire literature, I'm not concerned that	11	while the studies were ongoing. So they
12	recall bias had an effect on the results.	12	weren't designed to answer that question.
13	BY MS. BROWN:	13	Q. Did you consider the published
14	Q. You state in your report on	14	power calculation done by Berge?
15	page 8, that all of the cohort studies are	15	A. Let me look at Berge's
16	limited by lack of power.	16	published power calculation.
17	A. Yes.	17	Q. Do you know that do you
18	Q. Is that your opinion?	18	know do you recall reviewing that in
19	A. Lack of power to ask the	19	connection with your
20	specific question, yes.	20	A. I recall
21	Q. Lack of power to ask?	21	Q testimony?
22	A. To answer the specific	22	A reviewing the paper. I
23	question.	23	don't recall specifically what his his
4.0			
23 24	-		
	Q. Okay. And you are not a	24	person I don't know this person.

65 (Pages 254 to 257)

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	Page 258		Page 260
1	Q. I'll direct your attention,	1	MS. O'DELL: Excuse me, when
2	then, Doctor, to page 6 of the Berge paper.	2	you say "here," are you referring to
3	It looks like you might have a different	3	your report?
4	version than I do, but page 6 of the	4	A. In my report, under "Summary of
5	publication, second column, first paragraph	5	Epidemiological Evidence" on page 8.
6	on the	6	BY MS. BROWN:
7	A. What part of the paper is it	7	Q. And one of the things, Doctor,
8	in?	8	you provided a site that meta-analyses can be
9	Q. The discussion section.	9	some of the highest form of epidemiological
10	A. Okay.	10	evidence, correct?
11	Q. It's my third paragraph of the	11	A. Yes.
12	discussion section.	12	Q. And the Penninkilampi study
13	A. Gotcha.	13	that you pointed to was one of the highest
14	Q. And let me just read this into	14	MS. O'DELL: Why don't we go
15	the record to expedite us here. "An	15	off the record.
16	important feature of the present	16	MS. BROWN: Let's try to keep
17	meta-analysis is the inclusion of several	17	going.
18	cohort studies, which enabled an analysis	18	BY MS. BROWN:
19	stratified by study design. This analysis	19	Q. The Penninkilampi study that
20	provided evidence of a heterogeneity of	20	you pointed to as one of the higher quality
21	results between the two groups of studies	21	studies is, in fact, a meta-analysis,
22	with an association generally detected in	22	correct?
23	case-control studies but not in cohort	23	A. That's correct.
24	studies. It should be noted that the cohort	24	Q. And you are certainly not
	Page 259		
	Page 259		Page 261
1		1	
1 2	studies included in the meta-analysis	1 2	Page 261 meaning to suggest that there's something improper about pooling or combining data in a
	studies included in the meta-analysis comprised of a total of 429 cases of ovarian		meaning to suggest that there's something improper about pooling or combining data in a
2	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943	2	meaning to suggest that there's something improper about pooling or combining data in a meta-analysis, correct?
2 3	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943 unexposed: The statistical power of the	2 3	meaning to suggest that there's something improper about pooling or combining data in a
2 3 4	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943	2 3 4	meaning to suggest that there's something improper about pooling or combining data in a meta-analysis, correct? MS. O'DELL: Object to the
2 3 4 5	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943 unexposed: The statistical power of the meta-analysis of these cohort studies to	2 3 4 5	meaning to suggest that there's something improper about pooling or combining data in a meta-analysis, correct? MS. O'DELL: Object to the form.
2 3 4 5 6	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943 unexposed: The statistical power of the meta-analysis of these cohort studies to detect a relative risk of 1.25, similar to	2 3 4 5 6	meaning to suggest that there's something improper about pooling or combining data in a meta-analysis, correct? MS. O'DELL: Object to the form. A. I don't believe I ever said
2 3 4 5 6 7	studies included in the meta-analysis comprised of a total of 429 cases of ovarian cancer exposed to genital talc and 943 unexposed: The statistical power of the meta-analysis of these cohort studies to detect a relative risk of 1.25, similar to the result of the meta-analysis of	2 3 4 5 6 7	meaning to suggest that there's something improper about pooling or combining data in a meta-analysis, correct? MS. O'DELL: Object to the form. A. I don't believe I ever said anything about negative about a
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66 (Pages 258 to 261)

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the Women's Health Initiative, those studies	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	upper limit. Do you see that? A. Yeah. Q. Did you go back to the individual studies to verify that Penninkilampi was correct in that reporting? A. Oh, that in these charts? Q. Correct. A. That every I did not. Q. Would it be important to you in determining that a study is of high quality, that the authors accurately report the odds ratios and the confidence intervals? A. It would, but it's not my routine or standard for me to go back and re-review the odds ratios of every paper to confirm that. I would assume that is part of the peer-review process that has happened. Q. And if there were, in fact, errors in the reporting of the odds ratios or the confidence intervals, would that call into question your reliance on the study? A. I would want to see it	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Penninkilampi was because it was the most recent. And in my interpretation of the meta-analysis, they all show a positive correlation, so I just wanted to show the most recent. Q. And you'll agree with me that both meta-analyses or the Berge meta-analysis shows no increased risk in the cohorts, correct? A. No increased risk in the cohort pooled cohorts in the Berge paper. Q. And if you consider the Gates study as the most recent data available on the Nurses Health cohort, you'll agree with me there is no evidence at all in the prospective cohorts of any increased risk of ovarian cancer with talc use. True? MS. O'DELL: Object to the form. A. With the the other issues with the cohort studies is they ask ever use, not current use, length of use, time of use.
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	upper limit. Do you see that? A. Yeah. Q. Did you go back to the individual studies to verify that Penninkilampi was correct in that reporting? A. Oh, that in these charts? Q. Correct. A. That every I did not. Q. Would it be important to you in determining that a study is of high quality, that the authors accurately report the odds ratios and the confidence intervals? A. It would, but it's not my routine or standard for me to go back and re-review the odds ratios of every paper to confirm that. I would assume that is part of the peer-review process that has happened. Q. And if there were, in fact, errors in the reporting of the odds ratios or the confidence intervals, would that call into question your reliance on the study? A. I would want to see it recalculated, if there were if there were	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Penninkilampi was because it was the most recent. And in my interpretation of the meta-analysis, they all show a positive correlation, so I just wanted to show the most recent. Q. And you'll agree with me that both meta-analyses or the Berge meta-analysis shows no increased risk in the cohorts, correct? A. No increased risk in the cohort pooled cohorts in the Berge paper. Q. And if you consider the Gates study as the most recent data available on the Nurses Health cohort, you'll agree with me there is no evidence at all in the prospective cohorts of any increased risk of ovarian cancer with talc use. True? MS. O'DELL: Object to the form. A. With the the other issues with the cohort studies is they ask ever use, not current use, length of use, time of use. Both the Gates and Gertig and the Houghton,

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	Page 266		Page 268
1	were not designed to be able to ask those	1	that might get at the answer, two of the
2	questions and so we can't have that	2	three by not being designed to answer that
3	information. And so the limitations of the	3	question. And so with those caveats, they
4	cohort studies, as as I said before,	4	saw no statistically significant increase in
5	individually, lack of power, not making the	5	ovarian cancer with talcum powder use
6	correct queries and short follow-up, except	6	reported as ever use.
7	the second follow-up of Gates, but that's	7	BY MS. BROWN:
8	only one study and it's still not large	8	Q. What's your methodology for
9	enough.	9	do you weight the cohorts and the case
10	BY MS. BROWN:	10	controls equally in your analysis?
11	Q. That wasn't my question. My	11	MS. O'DELL: Objection to the
12	question was, if you consider Gates as the	12	form.
13	most recent data on the Nurses Health cohort,	13	A. I consider all of the evidence,
14	you would agree with me that there is no	14	not only the epidemiologic evidence but the
15	evidence in any of the prospective studies	15	causation evidence, the animal in the in
16	that shows a statistically significant	16	vitro data as a whole and formed my opinion.
17	increased risk of ovarian cancer with	17	BY MS. BROWN:
18	perineal task use. True?	18	Q. My question was, do you weight
19	MS. O'DELL: Object to the	19	the case controls equally to the cohorts?
20	form.	20	MS. O'DELL: Objection, asked
21	A. I would say that all the	21	and answered.
22	cohorts or cohort studies have the same	22	You may answer it.
23	limitations, not large enough, not asking the	23	A. I look at the entire evidence,
24	right questions, and the only one that	24	all the epidemiologic evidence, as well as
an and an	Page 267		
1			
1	doesn't have the shortest short follow-up,	1	the in vitro and in vivo evidence and made my
2	which it still may not be long enough, is the	2	decision.
3	Nurses Health Study. And with those caveats,	3	BY MS. BROWN:
4	there was no statistically significant	4	Q. Are you not understanding that
5	increase in ovarian cancer in perineal talcum	5	question?
6	powder use. But given that ovarian cancer's	6	MS. O'DELL: Counselor, you can
7	a rare disease and with those caveats, I'm	7	ask the questions, but she's given you
8	not sure that they're designed to answer the	8	an answer. Just because you don't
9	question. So it doesn't say to me there	9	like the answer doesn't mean she
10	isn't a risk.	10	didn't answer the question.
11 12	BY MS. BROWN:	11 12	MS. BROWN: I've heard the same
13	Q. But that wasn't my question. My question was just, there is not a single	13	answer nine times. The question is
13	prospective study that shows an increased	14	MS. O'DELL: You're asking the question over and over again.
15	risk of ovarian cancer with talcum powder	15	MS. BROWN: You're wasting so
	*	16	_
16	use That's it It's yes or no		
16 17	use. That's it. It's yes or no. MS_O'DELL: Excuse me_No.		much time.
17	MS. O'DELL: Excuse me. No,	17	BY MS. BROWN:
17 18	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may	17 18	BY MS. BROWN: Q. My question really just goes to
17 18 19	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may answer it in any way you choose,	17 18 19	BY MS. BROWN: Q. My question really just goes to weight. Okay. I understand you marked at
17 18 19 20	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may answer it in any way you choose, Dr. Wolf.	17 18 19 20	BY MS. BROWN: Q. My question really just goes to weight. Okay. I understand you marked at the beginning of the deposition weight of the
17 18 19 20 21	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may answer it in any way you choose, Dr. Wolf. A. The studies are all limited by	17 18 19 20 21	BY MS. BROWN: Q. My question really just goes to weight. Okay. I understand you marked at the beginning of the deposition weight of the evidence from UpToDate. Do you remember
17 18 19 20 21 22	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may answer it in any way you choose, Dr. Wolf. A. The studies are all limited by lack of power, by short follow-up in two of	17 18 19 20 21 22	BY MS. BROWN: Q. My question really just goes to weight. Okay. I understand you marked at the beginning of the deposition weight of the evidence from UpToDate. Do you remember that?
17 18 19 20 21	MS. O'DELL: Excuse me. No, it's not. Objection to form. You may answer it in any way you choose, Dr. Wolf. A. The studies are all limited by	17 18 19 20 21	BY MS. BROWN: Q. My question really just goes to weight. Okay. I understand you marked at the beginning of the deposition weight of the evidence from UpToDate. Do you remember

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1 2	Page 270		Page 272
	you did this analysis, did you give equal	1	it.
	weight to the cohorts and the case controls?	2	(Deposition Exhibit 18 marked
3	MS. O'DELL: Objection to the	3	for identification.)
4	preamble, which was incorrect, but you	4	BY MS. BROWN:
5	may answer.	5	Q. I'm handing you what we've
6	A. So I weighted every piece of	6	marked as Exhibit 18 to your deposition,
7	evidence not separating by the type of study,	7	which is a printout from the NCI's website,
8	but looking at the strengths and the	8	entitled "Ovarian, Fallopian Tube and Primary
9	weaknesses of the study and then together put	9	Peritoneal Cancer Prevention, Health
10	the evidence to make my opinion.	10	Professional Version." Do you see that,
11	BY MS. BROWN:	11	Doctor?
12	Q. On page 3 of your report,	12	A. Yes.
13	Doctor, you reference the National Cancer	13	Q. And during your work as a
14	Institute and that's the public health	14	gynecologic oncologist, did you look to the
15	authority's definition of a risk factor. Do	15	NCI for information on how to treat your
16	you remember that?	16	patients?
17	A. Yes.	17	A. Occasionally, but not
18	Q. Fair to say one of the reasons	18	routinely.
19	you reference the National Cancer Institute	19	Q. Do you consider the National
20	is that you consider it to be a leading	20	Cancer Institute to be a reliable source of
21	public health authority, particularly when it	21	information on cancer epidemiology?
22	comes to cancer?	22	MS. O'DELL: Object to the
23	MS. O'DELL: Object to the	23	form.
24	form.	24	A. I consider it a reliable source
	Page 271		Page 273
1	A. Specifically here, I reference	1	on cancer as a whole. And again, to me
2	the National Cancer Institute because of	2	it's it's one of the pieces of evidence
3	their definition of "associations" versus	3	that I might look to to find some
4	"causative" risk factors.	4	information.
5	BY MS. BROWN:	5	BY MS. BROWN:
6	Q. And you consider the National	6	Q. And what the National Cancer
7	Cancer Institute to be a leading public	7	Institute has done here is evaluate risk
8	health authority. True?	8	factors for ovarian cancer, correct?
9	MS. O'DELL: Objection to the	9	A. Yes.
10	form, asked and answered.	10	Q. And, for example, if you look
11	A. So if you're asking me what	11	at page 3 of 21, the National Cancer
12	I think I hear you asking me is why did I	12	Institute's information begins with factors
13	reference the National Cancer Institute here,	13	with adequate evidence of an increased risk
14	and I referenced it because of this	14	of ovarian cancer, correct?
15	definition.	15	A. Yes.
16	BY MS. BROWN:	16	Q. Okay. And they list things
17	Q. The National Cancer Institute	17	like endometriosis, correct?
	has reviewed the epidemiology on talc and	18	A. Yeah.
18	ovarian cancer, correct?	19	Q. They list hormone replacement
		20	therapy. True?
18	A. That's correct.		
18 19	A. That's correct. Q. Did you consider the National	21	A. Yes.
18 19 20		22	A. Yes.Q. And the National Cancer
18 19 20 21	Q. Did you consider the National		A. Yes.

69 (Pages 270 to 273)

1	evidence of an increased risk is talcum	1	
1		1	BY MS. BROWN:
2	powder use, correct?	2	Q. Let's reorient ourselves now
3	A. That's correct.	3	that we're all on the same page. The
4	Q. And what the National Cancer	4	National Cancer Institute has classified
5	Institute does, is it identifies some area	5	perineal talc exposure as a factor with
6	where there's uncertainty in terms of a risk	6	inadequate evidence of an association with
7	factor, right?	7	ovarian cancer, correct?
8	A. Yes.	8	MS. O'DELL: Object to the
9	Q. And so on page 7 of 21, for	9	form.
10	example, they identify infertility treatment	10	A. It's listed under factors with
11	as an area of uncertainty, correct?	11	inadequate evidence, that's correct.
12	A. Yes.	12	BY MS. BROWN:
13	Q. And when it comes to perineal	13	Q. All right. And the National
14	talc use, however, the National Cancer	14	Cancer Institute has factors with adequate
15	Institute has determined that that is a	15	evidence, right?
16	factor with inadequate evidence of an	16	A. Yes.
17	association of the risk of ovarian cancer,	17	Q. We just looked at some.
18	correct?	18	A. Yes.
19	MS. O'DELL: Object to the	19	Q. It has factors with uncertain
20	form.	20	evidence, right?
21	A. That's where they placed it in	21	A. Yes.
22	this, yes.	22	Q. And then it has factors with
23	BY MS. BROWN:	23	inadequate evidence, and that includes
24	Q. And directing your attention to	24	perineal tale exposure, correct?
	Q. Tana an esting your antenness to		r
	Page 275		Page 277
1	page 14 of 21, what the National Cancer	1	A. That's correct.
2	Institute has concluded is that, "The weight	2	MS. O'DELL: Object to the
3	of the evidence does not support an	3	form.
4	association between perineal talc exposure	4	BY MS. BROWN:
5	and an increased risk of ovarian cancer.	5	Q. And what the National Cancer
6	Results from case-control and cohort studies	6	Institute has determined here is that the
7	are inconsistent."	7	weight of the evidence does not support an
8	Do you see that?	8	association between perineal talc exposure
9	MS. O'DELL: Object to the	9	and an increased risk of ovarian cancer.
10	form. Can I just ask where you're	10	A. That's the part I don't
11	reading from? You said page 21.	11	Q. Results
12	A. Yeah, I don't see that.	12	A. That's where I'm trying to find
13	BY MS. BROWN:	13	
14	Q. Page 14 of 21.	14	Q. Let me read it and then I'm
15	MS. O'DELL: We don't have 21.	15	going to help you.
16	We have 18 pages.	16	"Results from case-control and
17	A. And page 14 is references.	17	cohort studies are inconsistent." And what
18	BY MS. BROWN:	18	I'm reading are the first two lines of the
19	Q. You have a different version	19	perineal tale exposure section.
			=
20	than I do. I'll get you there. Right here,	20	A. Okay. Okay. What's your
21	perineal talc exposure.	21	question?
22	MS. O'DELL: So repeat the question, please.	22	Q. You, Dr. Wolf, disagree with
	question piease	23	the National Cancer Institute, correct?
23		24	
23	MS. BROWN: Sure.	24	A. In this instance, I do.

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	Page 278		Page 280
1	Q. And tell me what methodology	1	opinion. It's my experience that in order to
2	you have employed that is different from the	2	get someone like the National Cancer
3	weight of the evidence approach, referenced	3	Institute or some other guideline to suggest
4	here by the National Cancer Institute.	4	something, there's generally a lag of several
5	A. So I see that the National	5	years between publication of all the
6	Cancer Institute has referenced five	6	literature and when the committee changes
7	articles. So one of the things is that I	7	something. An example of that is that the
8	believe that my review of the entire body of	8	Schildkraut paper was published in 2016. It
9	literature is much broader than five	9	wasn't until the end of 2018 that they
10	articles. And when I look at the most recent	10	included it.
11	article, they do have one article from 2016,	11	Q. Dr. Wolf, are you aware of any
12	which is the Schildkraut data, which is	12	public health authority that has concluded
13	they just now at the end of 2018, added that	13	talcum powder causes ovarian cancer?
14	data into theirs. So I would say there's	14	MS. O'DELL: Object to the
15	other data that they either didn't have when	15	form.
16	they did the review or didn't include when	16	A. I'm aware that IARC has
17	they did the review.	17	considered that talc is possibly
18	Q. And in offering that opinion,	18	carcinogenic, that asbestos is carcinogenic.
19	have you considered, Doctor, that according	19	BY MS. BROWN:
20	to this document from the NCI, board members	20	Q. IARC has not concluded that
21	meet monthly to review recently published	21	talc causes ovarian cancer, correct?
22	articles? I'll point you to the section	22	MS. O'DELL: Object to the
23	entitled "About This PDQ Summary," at the	23	form.
24	very end, under the section "Reviewers and	24	A. One of the reasons for the
	D 270		
	Page 279		Page 281
1	Updates," do you see the National Cancer	1	Page 281 review of talc was the concern of ovarian
1 2		1 2	
	Updates," do you see the National Cancer		review of talc was the concern of ovarian
2	Updates," do you see the National Cancer Institute's	2	review of talc was the concern of ovarian cancer. The fact that they have considered
2	Updates," do you see the National Cancer Institute's A. I see that.	2 3	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an
2 3 4	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting	2 3 4	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly
2 3 4 5	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published	2 3 4 5	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up.
2 3 4 5 6	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right?	2 3 4 5 6	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority
2 3 4 5 6 7	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes.	2 3 4 5 6 7	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up.
2 3 4 5 6 7 8	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the	2 3 4 5 6 7 8	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer?
2 3 4 5 6 7 8 9 10	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last	2 3 4 5 6 7 8 9 10	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the
2 3 4 5 6 7 8 9	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was	2 3 4 5 6 7 8 9	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form.
2 3 4 5 6 7 8 9 10	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last	2 3 4 5 6 7 8 9 10	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I
2 3 4 5 6 7 8 9 10 11 12	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was	2 3 4 5 6 7 8 9 10 11 12	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available
2 3 4 5 6 7 8 9 10 11 12 13	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was updated a few weeks ago in December 21st of	2 3 4 5 6 7 8 9 10 11 12 13	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available to me, including the data as recent as
2 3 4 5 6 7 8 9 10 11 12 13 14	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was updated a few weeks ago in December 21st of 2018? A. Yes. Q. Okay. Do you have any other	2 3 4 5 6 7 8 9 10 11 12 13 14	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available to me, including the data as recent as December. The Canada health assessment, the
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was updated a few weeks ago in December 21st of 2018? A. Yes. Q. Okay. Do you have any other scientific evidence or methodology that would	2 3 4 5 6 7 8 9 10 11 12 13 14 15	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available to me, including the data as recent as December. The Canada health assessment, the Taher paper. And I believe that my opinion
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was updated a few weeks ago in December 21st of 2018? A. Yes. Q. Okay. Do you have any other scientific evidence or methodology that would distinguish your review of the literature from the folks at the National Cancer Institute? A. I'm going to go back to the review of the entire body of the literature. I don't know which articles they look at once	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available to me, including the data as recent as December. The Canada health assessment, the Taher paper. And I believe that my opinion is based on a greater weight of the evidence than the review of the National Cancer Institute or anything that was available prior to this for a body to review. And if I go back to the talc and IARC study, even with papers only till 2007 and 2008, there was
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Updates," do you see the National Cancer Institute's A. I see that. Q board members meeting monthly to review recently published articles, right? A. Yes. MS. O'DELL: Object to the form. BY MS. BROWN: Q. And we see at the very last page, that this particular document was updated a few weeks ago in December 21st of 2018? A. Yes. Q. Okay. Do you have any other scientific evidence or methodology that would distinguish your review of the literature from the folks at the National Cancer Institute? A. I'm going to go back to the review of the entire body of the literature.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	review of talc was the concern of ovarian cancer. The fact that they have considered it possibly carcinogenic, to me is an indication that they think it's possibly carcinogenic. BY MS. BROWN: Q. Okay. Let's break that up. Are you aware of any public health authority that agrees with your opinion that talcum powder causes ovarian cancer? MS. O'DELL: Object to the form. A. When I formed my opinion, I looked at all of the data that was available to me, including the data as recent as December. The Canada health assessment, the Taher paper. And I believe that my opinion is based on a greater weight of the evidence than the review of the National Cancer Institute or anything that was available prior to this for a body to review. And if I go back to the talc and IARC study, even with

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	Page 282		Page 284
1	was possibly carcinogenic.	1	correct?
2	BY MS. BROWN:	2	A. Yes.
3	Q. IARC did not consider three of	3	Q. And IARC has and done has
4	the four prospective cohort studies that	4	and does make that determination as it
5	showed no increased risk of with talcum	5	relates to certain substances, correct?
6	powder, true?	6	A. Yes.
7	A. They also did not show	7	Q. Okay. IARC has not determined
8	include any paper that was published after	8	that nonasbestiform talc is strike that.
9	2007.	9	IARC has not determined that
10	Q. And that would include three of	10	there is sufficient evidence that
11	the four prospective cohort studies that	11	nonasbestiform talc causes ovarian cancer,
12	showed no risk, right?	12	correct?
13	A. That would include anything	13	MS. O'DELL: Object to the
14	published after 2007.	14	form.
15	Q. And as I understand your	15	A. In the IARC opinion on talc,
16	testimony as it relates to the National	16	platy talc, what was assumed to be platy talc
17	Cancer Institute, you believe that despite	17	without any fibrous contamination, the score
18	the fact that the NCI updated its position as	18	was 2B, which is possibly carcinogenic.
19	recently as a few weeks ago, they have not	19	BY MS. BROWN:
20	reviewed the most latest literature. Is that	20	Q. And in explaining what IARC
21	your testimony?	21	means by "possibly carcinogenic," IARC
22	MS. O'DELL: Object to the	22	explains that chance, bias or confounding
23	form.	23	can't be ruled out with reasonable
24	A. I'm saying that I don't know if	24	confidence, correct?
			Page 285
1	they have. The most recent literature that	1	A. That's correct.
1 2	they cited is two years old.	2	Q. And you think as it relates to
3	BY MS. BROWN:	3	IARC's interpretation of epidemiology,
4	Q. And what literature do you	4	they're wrong, right?
5	think has come out in the next in the last	5	MS. O'DELL: Object to the
6	two years that IARC excuse me, that NCI,	6	form.
7	despite a publication last month, did not	7	A. I think that they made the
_		_	decision that they thought was correct with
8 9	A. Well, I'm going to say both the	8	the information that they had at the time
10	Berge meta-analysis and the Penninkilampi	10	that they made it.
11	meta-analysis.	11	BY MS. BROWN:
12	Q. IARC has a classification for	12	Q. At the time that IARC
			~
13	agents that it believes to be carcinogenic,	13	determined that talc nonasbestiform talc
13 14	agents that it believes to be carcinogenic, correct?	13 14	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you
13 14 15	agents that it believes to be carcinogenic, correct? A. Yes.	13 14 15	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct?
13 14 15 16	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct?	13 14 15 16	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the
13 14 15 16 17	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct.	13 14 15 16 17	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form.
13 14 15 16 17 18	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a	13 14 15 16 17 18	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I
13 14 15 16 17 18	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a determination that with some substances,	13 14 15 16 17 18 19	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I said the last time. That I believe that they
13 14 15 16 17 18 19 20	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a determination that with some substances, there is sufficient evidence of	13 14 15 16 17 18 19 20	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I said the last time. That I believe that they came to that conclusion based on their review
13 14 15 16 17 18 19 20 21	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a determination that with some substances, there is sufficient evidence of carcinogenicity. True?	13 14 15 16 17 18 19 20 21	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I said the last time. That I believe that they came to that conclusion based on their review of the literature that they had at the time.
13 14 15 16 17 18 19 20 21 22	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a determination that with some substances, there is sufficient evidence of carcinogenicity. True? A. That's correct.	13 14 15 16 17 18 19 20 21 22	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I said the last time. That I believe that they came to that conclusion based on their review of the literature that they had at the time. BY MS. BROWN:
13 14 15 16 17 18 19 20 21	agents that it believes to be carcinogenic, correct? A. Yes. Q. And that is a group 1, correct? A. That's correct. Q. And IARC has and does make a determination that with some substances, there is sufficient evidence of carcinogenicity. True?	13 14 15 16 17 18 19 20 21	determined that talc nonasbestiform talc had limited evidence of carcinogenic, you believe that was correct? MS. O'DELL: Object to the form. A. I'm going to say again what I said the last time. That I believe that they came to that conclusion based on their review of the literature that they had at the time.

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	Page 286		Page 288
1	Bradford Hill criteria?	1	right?
2	A. Yes.	2	A. Yes.
3	Q. And is that the criteria you	3	Q. Okay. There had been prior
4	evaluated the literature with here too?	4	case-control studies in that same relative
5	A. I actually I didn't know	5	risk range, correct?
6	that's what I was doing until I read the	6	A. Yes.
7	Bradford Hill criteria paper myself and	7	Q. Okay. There was nothing new or
8	realized that that's what I do when I review	8	different about the relative risks shown in
9	the literature and it fit very nicely into	9	the most recent case-control studies,
10	that criteria. So in my report, yes.	10	correct?
11	Q. As a practicing gynecologic	11	MS. O'DELL: Object to the
12	oncologist, you don't use the epidemiologic	12	form.
13	tool of Bradford Hill criteria; is that fair?	13	A. There was additional it's
14	MS. O'DELL: Object to the	14	just confirmation and of the same
15	form.	15	information, showing consistency, which is
16	A. In my general practice, I don't	16	one of the tenets of the Bradford Hill
17	use the Bradford Hill criteria, specifically	17	criteria.
18	calling it that, but all of those criteria	18	BY MS. BROWN:
19	are what I use when I evaluate something.	19	
20	BY MS. BROWN:	20	Q. And, in fact, there's no consistency with the findings of the
		21	,
21	Q. And you understand that when		prospective studies, right?
22	the scientists at IARC evaluate whether or	22	MS. O'DELL: Object to the
23	not a substance is carcinogenic, they too	23	form.
24	employ the Bradford Hill criteria, correct?	24	A. The three cohort studies, I'll
	Page 287		Page 289
1	A. Yes.	1	say once again, had limitations which I don't
2	Q. Okay. Is there something	2	think allowed us to answer the question about
3	different in your mind, about how you	3	talc and ovarian cancer, the size, the
4	employed Bradford Hill and how IARC employed	4	information about use and the follow-up.
5	Bradford Hill?	5	BY MS. BROWN:
6	A. We had different information.	6	Q. In your review of the
7	Q. And the different information	7	literature, did you make the determination
8	you're referring to are some additional	8	that the case-control studies asked different
9	case-control studies and additional	9	questions about use than the prospective
10	meta-analysis?	10	studies?
11	A. And cohort studies and in	11	A. The case-control studies, many
12	inflammatory papers, causation papers that	12	of them, asked more specific questions and
13	weren't published before 2007.	13	were able to obtain more information.
14	Q. And you would agree with me	14	Q. Is it you state in your
15	that	15	report that the case-control studies are
16	MS. O'DELL: Excuse me,	16	consistent, right?
17	published before 2007?	17	A. Yes.
18	THE WITNESS: Were not. Were	18	Q. And they are not when you
19	not.	19	look at the case-control studies and the
20	BY MS. BROWN:	20	cohort studies, though, there is not
21		21	<u> </u>
22	Q. You would agree with me that the general relative risks seen in the	22	consistency, correct?
44			MS. O'DELL: Object to the
	additional case control studies that veriles	1 77	torm
23	additional case-control studies that you're	23	form.
	additional case-control studies that you're referring to, range from about 1.2 to 1.6,	23	form. A. When I look at the

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page 290 1 epidemiologic data as a whole, as well as all 2 of the rest of the data about causation and 3 the makeup and the chemicals the 4 components of talcum powder product, it's 5 all it's consistent to me, the weight of 6 the evidence is consistent. 7 BY MS. BROWN: 8 Q. Prospective studies have not 9 found an increased risk, correct? 9 that the incident rate of ovarian cancer is 10 MS. O'DELL: Object to the 11 form. 12 A. Prospective studies have 13 limitations, which I have described multiple 14 times, size, follow-up, length of follow-up, 15 information about talc use. And given those 16 caveats, they have not shown a statistical 17 increase significant increase in ovarian 18 cancer. 19 BY MS. BROWN: 10 Q. And you state that in your 20 cancer. 21 Studies are consistent showing a 30-50 22 A. Well, if we could pull up the 23 percent increase in risk of ovarian cancer 24 Wu study, I don't recall how many	than it
2 of the rest of the data about causation and 3 the makeup and the chemicals the 4 components of talcum powder product, it's 5 all it's consistent to me, the weight of 6 the evidence is consistent. 7 BY MS. BROWN: 8 Q. Prospective studies have not 9 found an increased risk, correct? 9 that the incident rate of ovarian cancer is 10 MS. O'DELL: Object to the 11 form. 12 A. Prospective studies have 13 limitations, which I have described multiple 14 times, size, follow-up, length of follow-up, 15 information about talc use. And given those 16 caveats, they have not shown a statistical 17 increase significant increase in ovarian 18 cancer. 19 BY MS. BROWN: 10 Q. And you state that in your 20 Q. And you state that in your 21 report at page 6, "Overall, the case-control 22 studies are consistent showing a 30-50 20 Q. Weight of figure was to a high quality study was the Wu study, right? 4 study, right? 5 A. Yes. 6 Q. And one of the things that's 7 reported in the Wu study and that you knee a practicing gynecological oncologist, is 8 a practicing gynecological oncologist, is 9 that the incident rate of ovarian cancer is much lower in African-American women 10 much lower in African-American women 11 is in Whites, correct? 12 A. That's correct. 13 limitations, which I have described multiple 14 reports is that talcum powder use is much 15 higher in African-American women than 16 whites, correct? 17 A. That's correct. 18 Q. And how do you reconcile those 19 by MS. BROWN: 19 two facts, Doctor, that the population that 19 has the highest use of talcum powder has 20 Q. And you state that in your 21 report at page 6, "Overall, the case-control 22 studies are consistent showing a 30-50 24 A. Well, if we could pull up the	than it
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all it's consistent to me, the weight of the evidence is consistent. BY MS. BROWN: Q. Prospective studies have not form. A. That's correct? A. That's correct. A. That's correct. A. That's correct. C. And one of the things that's reported in the Wu study and that you kneed a practicing gynecological oncologist, is that the incident rate of ovarian cancer is much lower in African-American women is in Whites, correct? A. That's correct. A. That's correc	than it
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Q. Prospective studies have not found an increased risk, correct? MS. O'DELL: Object to the form. A. Prospective studies have limitations, which I have described multiple limitation about talc use. And given those range acress, they have not shown a statistical rincrease significant increase in ovarian RYMS. BROWN: Q. And you state that in your Q. And you state that in your studies are consistent showing a 30-50 RYMS. Brown increase in ovarian approach of the things that Wu approach increase of talcum powder use is much have two facts, Doctor, that the population that has the highest use of talcum powder has lowest incidence of ovarian cancer? A. Well, if we could pull up the	than it
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10 MS. O'DELL: Object to the 11 form. 12 A. Prospective studies have 13 limitations, which I have described multiple 14 times, size, follow-up, length of follow-up, 15 information about talc use. And given those 16 caveats, they have not shown a statistical 17 increase significant increase in ovarian 18 cancer. 19 BY MS. BROWN: 19 BY MS. BROWN: 10 much lower in African-American women is in Whites, correct? 10 A. That's correct. 11 Whites, correct? 12 A. That's correct. 13 Whites, correct? 14 A. That's correct. 15 lowest incidence of ovarian that wo facts, Doctor, that the population that has the highest use of talcum powder has report at page 6, "Overall, the case-control studies are consistent showing a 30-50 19 A. Well, if we could pull up the	
11 form. 12 A. Prospective studies have 13 limitations, which I have described multiple 14 times, size, follow-up, length of follow-up, 15 information about talc use. And given those 16 caveats, they have not shown a statistical 17 increase significant increase in ovarian 18 cancer. 19 BY MS. BROWN: 19 Whites, correct? 19 BY MS. BROWN: 19 two facts, Doctor, that the population that 20 Q. And you state that in your 20 report at page 6, "Overall, the case-control 21 lowest incidence of ovarian cancer? 21 studies are consistent showing a 30-50 22 A. Well, if we could pull up the	
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increase significant increase in ovarian 17 A. That's correct. 18 Q. And how do you reconcile those 19 BY MS. BROWN: 19 two facts, Doctor, that the population that 20 Q. And you state that in your 20 has the highest use of talcum powder has 21 report at page 6, "Overall, the case-control 22 studies are consistent showing a 30-50 23 A. Well, if we could pull up the	
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Q. And you state that in your 20 has the highest use of talcum powder has report at page 6, "Overall, the case-control 21 lowest incidence of ovarian cancer? studies are consistent showing a 30-50 22 A. Well, if we could pull up the	
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studies are consistent showing a 30-50 22 A. Well, if we could pull up the	
with talcum powder use." 24 African-American women were in that str	ıdv.
Page 291 Page	293
Do you see that? 1 but the number was, I believe, small.	
2 A. Yes. 2 Q. Welt, wasn't this one of the	
3 Q. Okay. And are you referring to 3 studies you identified as being particularly	
4 ever use and ovarian cancer? 4 high quality?	
5 A. I'm referring to however it was 5 A. Yes.	
6 reported in the case-control studies. 6 Q. Okay.	
7 Q. Have you done an analysis of 7 A. Just because it didn't have a	
8 the case-control studies to see what the 8 lot of African-American patients doesn't m	ake
9 finding is when the same question is asked? 9 it doesn't make it not a good study; it's	
10 A. So I, personally, haven't. 10 just a fact.	
That's where I point to the meta-analysis, to 11 Q. But your critique of the cohort	
look at specific questions about how which 12 studies is that they didn't have enough	
13 questions were asked. 13 people, right?	
Q. And are you aware that when you 14 A. For a primary analysis. This	
look at the ever used question in the look at the look at the ever used question in the look at the ever used question in the look at the look a	
case-control studies, the majority of those 16 When you look at the Schildkraut study, w	nich
studies do not show an increased risk? 17 was specifically for African-Americans, the	ere
MS. O'DELL: Object to the 18 was a significant increase.	
18 MS. O'DELL: Object to the 18 was a significant increase.	
19 form. 19 Q. The primary focus of the Wu	
	en had
19 form. 19 Q. The primary focus of the Wu	en had
form. 19 Q. The primary focus of the Wu 20 A. Which is one of the limitations 20 paper was whether African-American work	en had
19 form. 19 Q. The primary focus of the Wu 20 A. Which is one of the limitations 20 paper was whether African-American work 21 of prospective studies because they only 21 an increased risk of talcum powder use.	en had
19 form. 20 A. Which is one of the limitations 21 of prospective studies because they only 22 asked ever used without details about how 23 d. The primary focus of the Wu 24 paper was whether African-American work 25 an increased risk of talcum powder use. 26 A. This is not the right Wu paper.	en had

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	Page 294		Page 296
1	THE WITNESS: I don't have the	1	how many were African-American. There were
2	right Wu paper.	2	128.
3	MS. O'DELL: Just a second	3	BY MS. BROWN:
4	here.	4	Q. 1700? Are you looking at Wu?
5	BY MS. BROWN:	5	A. Yes.
6	Q. Is that what you're looking	6	MS. O'DELL: Her testimony was
7	for, Doctor? We can mark it.	7	not was 128.
8	A. Yes, this is the one.	8	A. 128 African-Americans.
9	MS. O'DELL: Thank you.	9	BY MS. BROWN:
10	BY MS. BROWN:	10	Q. I misheard you.
11	Q. Let me just stick 19 on that	11	A. 1700 women total. Of those,
12	for you.	12	128 were African-American, most of them were
13	(Deposition Exhibit 19 marked	13	non-Hispanic/White. So that study isn't
14	for identification.)	14	powered to answer the question about
15	BY MS. BROWN:	15	African-Americans and the relationship of
16	Q. Doctor, I have marked for the	16	talcum powder and ovarian cancer. It's not
17	record as Exhibit 19, the Wu article we've	17	enough.
18	been discussing. And my question for you	18	Q. We're missing each other. I
19	here is how what methodology you employed	19	want you to put this study aside. I'm asking
20	to reconcile some of the facts that are	20	you a question about facts that are reported
21	reported in Wu; namely, that African-American	21	here that you know as a gynecologic
22	women had the lowest incidence of ovarian	22	oncologist. One of the those facts, you'll
23	cancer and the highest incidence of talcum	23	agree with me, is that African-American women
24	powder use?	24	have a lower incidence of ovarian cancer than
	Page 295		Page 297
1	A. So the title of the Wu paper	1	white women, right?
2	says, "African-Americans and Hispanics Remain	2	MS. O'DELL: Object to the
3	at Lower Risk of Ovarian Cancer," but when	3	form.
4	you read the purpose of this study, it was to	4	A. Yes.
5	elucidate risk factors for disease and to	5	BY MS. BROWN:
6	evaluate differences across across	6	Q. Okay. And one of the things
7	Hispanics.	7	you know from reading Wu, because they report
8	Q. Sure.	8	it, is that African-American women are
9	A. But not specifically	9	traditionally higher talcum powder users than
10	African-Americans.	10	white women, right?
11	Q. No, Doctor, I'm using the	11	A. Yes.
12	information reported in this study that you	12	Q. And so what methodology have
13	identified as high quality to pose a	13	you employed in opining that talcum powder
14	commonsense question for you. Which is that,	14	causes ovarian cancer to explain this
15	how do you reconcile the idea that the	15	difference?
16	population that has the lowest amount of	16	A. Because when I look at the
17	ovarian cancer has the highest amount of	17	Schildkraut study, which was a larger study
18	powder use?	18	of African-American women, I believe, I have
19	MS. O'DELL: Object to the	19	to look at the numbers, there was a
20	form. She's answered your question	20	statistical significant difference increase
20	previously.	21	in ovarian cancer in women
21	previously.		
	But you may respond.	22	African-American women.
21	* · · · · · · · · · · · · · · · · · · ·	22 23	African-American women. Q. Right. But you know the annual incidence of ovarian cancer in

75 (Pages 294 to 297)

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	Page 298		Page 300
1	African-American women is historically and	1	MS. BROWN: Your objection is
2	remains much lower?	2	to form.
3	A. Yes.	3	MS. O'DELL: Fine. I think
4	MS. O'DELL: Objection, form,	4	Judge Pisano would understand my
5	asked and answered.	5	objection. And what I've objected to
6	BY MS. BROWN:	6	is the fact that you've asked the same
7	Q. I mean, do you understand what	7	question ten times, often with facial
8	I'm saying here? How do you reconcile that?	8	expressions, with gestures toward the
9	If talcum powder use really did cause ovarian	9	witness, which is inappropriate under
10	cancer, why is the population that uses	10	the protocol. But I'm not being
11	talcum powder the most, the population that	11	critical of that. I'm pointing it out
12	gets ovarian cancer the least?	12	for the record. So if you've got a
13	MS. O'DELL: Objection to the	13	question, ask it, the doctor will
14	form, asked and answered.	14	answer it to the best of her ability
15	You may answer.	15	as she's been doing. But to keep
16	A. Okay. So there are multiple	16	berating the witness with the same
17	risk factors for ovarian cancer. If	17	question is really not appropriate.
18	African-American women have some protection	18	MS. BROWN: Counsel, your
19	*	19	objection under the Federal Rules is
	from getting ovarian cancer, for whatever	20	to form. If there's something you'd
20	reason they don't get it as often, it doesn't	21	like to discuss off the record, I'd be
21	matter what the risk factor is. If you look	22	
22	at an individual risk factor in that	23	happy to do that. We need to move on
23	population alone and it increases their risk	24	here. We're wasting a lot of time.
24	over their baseline, it's a risk factor.	24	If Dr. Wolf would answer the question,
	Page 299		Page 301
1	Page 299 BY MS. BROWN:	1	Page 301 I would be happy to move on.
1 2	_	1 2	_
	BY MS. BROWN:		I would be happy to move on.
2	BY MS. BROWN: Q. What methodology have you	2	I would be happy to move on. MS. O'DELL: She's answered
2	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a	2	I would be happy to move on. MS. O'DELL: She's answered your question.
2 3 4	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most	2 3 4	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again
2 3 4 5	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you	2 3 4 5	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN:
2 3 4 5 6	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that?	2 3 4 5 6	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again,
2 3 4 5 6 7	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked	2 3 4 5 6 7	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf.
2 3 4 5 6 7 8	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same	2 3 4 5 6 7 8	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and
2 3 4 5 6 7 8	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor	2 3 4 5 6 7 8	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if
2 3 4 5 6 7 8 9	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an	2 3 4 5 6 7 8 9	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer.
2 3 4 5 6 7 8 9 10	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on.	2 3 4 5 6 7 8 9 10 11	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your
2 3 4 5 6 7 8 9 10 11 12	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on. MS. O'DELL: Excuse me, I'm	2 3 4 5 6 7 8 9 10 11 12	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your question is, how do how do I given that
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2 3 4 5 6 7 8 9 10 11 12 13	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on. MS. O'DELL: Excuse me, I'm not you want an answer you want. She's given you an answer to the	2 3 4 5 6 7 8 9 10 11 12 13 14	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your question is, how do how do I given that African-American women are less likely to get ovarian cancer and given that they use more talcum powder, why don't we see more ovarian
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on. MS. O'DELL: Excuse me, I'm not you want an answer you want. She's given you an answer to the question. MS. BROWN: Counsel, form. MS. O'DELL: Let me finish. MS. BROWN: But it's form. Federal Rules. MS. O'DELL: I can say what I'm	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your question is, how do how do I given that African-American women are less likely to get ovarian cancer and given that they use more talcum powder, why don't we see more ovarian cancer from talcum powder in African-American women? Is that what you're asking? BY MS. BROWN: Q. No, Doctor. Have you considered that as a factor that your opinion
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on. MS. O'DELL: Excuse me, I'm not you want an answer you want. She's given you an answer to the question. MS. BROWN: Counsel, form. MS. O'DELL: Let me finish. MS. BROWN: But it's form. Federal Rules. MS. O'DELL: I can say what I'm going to say.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your question is, how do how do I given that African-American women are less likely to get ovarian cancer and given that they use more talcum powder, why don't we see more ovarian cancer from talcum powder in African-American women? Is that what you're asking? BY MS. BROWN: Q. No, Doctor. Have you considered that as a factor that your opinion might not be right?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. BROWN: Q. What methodology have you employed to explain the fact that a population that uses this product the most gets ovarian cancer the least? How do you reconcile that? MS. O'DELL: Objection, asked and answered. You've asked the same question ten times. The doctor MS. BROWN: When I get an answer, I'll be happy to move on. MS. O'DELL: Excuse me, I'm not you want an answer you want. She's given you an answer to the question. MS. BROWN: Counsel, form. MS. O'DELL: Let me finish. MS. BROWN: But it's form. Federal Rules. MS. O'DELL: I can say what I'm going to say. MS. BROWN: Well, we can get	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	I would be happy to move on. MS. O'DELL: She's answered your question. You may answer it again BY MS. BROWN: Q. Please answer it again, Dr. Wolf. MS. O'DELL: Dr. Wolf, and feel free to give the same answer if it's the same answer. A. My understanding of your question is, how do how do I given that African-American women are less likely to get ovarian cancer and given that they use more talcum powder, why don't we see more ovarian cancer from talcum powder in African-American women? Is that what you're asking? BY MS. BROWN: Q. No, Doctor. Have you considered that as a factor that your opinion
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	Page 302		Page 304
1	of African-American women who use or did not	1	Schildkraut endeavored to do was to determine
2	use talcum powder and ovarian cancer in the	2	whether the class action lawsuits in 2014
3	case-control study of Schildkraut, which was	3	created recall bias in the women who were
4	the most recent paper mentioned in the NCI	4	diagnosed with ovarian cancer?
5	update on talc and ovarian cancer.	5	A. Okay.
6	BY MS. BROWN:	6	MS. O'DELL: Object to the
7	Q. And do you have Schildkraut in	7	form.
8	front of you? We marked it as Exhibit 19.	8	BY MS. BROWN:
9	A. I have it.	9	Q. Do you recall that?
10	Q. 15, I'm sorry. One of the	10	A. I do.
11	things that Schildkraut attempted to address	11	Q. And do you think that that is
12	was recall bias as a result of talcum powder	12	an important thing for an author of a
13	lawsuits, correct?	13	case-control study to analyze?
14	MS. O'DELL: Object to the	14	A. I do.
15	form.	15	Q. And you recall that when
16	BY MS. BROWN:	16	Schildkraut analyzed folks who had been
17	Q. And I'll direct you, Doctor,	17	interviewed prior to the lawsuits in 2014 and
18	to	18	after the lawsuits in 2014, there was a
19	A. Because I'm looking at the	19	significant difference in the number of
20	primary endpoint of the study and the primary	20	people diagnosed with ovarian cancer who
21	endpoint of the study was to analyze the	21	reported talcum powder use. Do you remember
22	relationship of genital powder and nongenital	22	that?
23	powder exposure in African-American women in	23	A. Well, I'm looking for that I
24	a case-control study of invasive ovarian	24	see in the query in the table, but I don't
1			
	cancer enithelial ovarian cancer in	1	see a statistical significant difference, and
	cancer epithelial ovarian cancer in African-American women	1 2	see a statistical significant difference, and
2	African-American women.	2	that's what I'm looking for in the results,
2	African-American women. Q. In forming your opinions in	2 3	that's what I'm looking for in the results, and I don't see it. If you know where it is,
2 3 4	African-American women. Q. In forming your opinions in this case, did you consider the subgroup	2 3 4	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me.
2 3 4 5	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women	2 3 4 5	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you
2 3 4	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the	2 3 4 5 6	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this
2 3 4 5 6 7	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014?	2 3 4 5 6 7	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup
2 3 4 5 6	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form.	2 3 4 5 6	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this
2 3 4 5 6 7 8	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form. A. I'm looking for those results	2 3 4 5 6 7 8	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup analysis?
2 3 4 5 6 7 8	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form. A. I'm looking for those results in the paper.	2 3 4 5 6 7 8	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup analysis? A. Yes. Q. Because you would agree with
2 3 4 5 6 7 8 9	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form. A. I'm looking for those results in the paper. BY MS. BROWN:	2 3 4 5 6 7 8 9	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup analysis? A. Yes.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form. A. I'm looking for those results in the paper. BY MS. BROWN: Q. In forming your opinion in the case, did you consider those? MS. O'DELL: Object to the form. A. I need to remind myself what those results were. BY MS. BROWN: Q. Okay. I'll direct you to Table 2 of the paper, which in my copy is 1414. A. I see that. And what was your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup analysis? A. Yes. Q. Because you would agree with Schildkraut, that recall bias, particularly where there's been a lot of lawsuit attention, is important to investigate, correct? MS. O'DELL: Object to the form. A. Recall bias is always something to investigate. BY MS. BROWN: Q. But it's it could be particularly acute in the context of a lot of
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	African-American women. Q. In forming your opinions in this case, did you consider the subgroup analysis that Schildkraut conducted on women who were interviewed before and after the class action lawsuits began in 2014? MS. O'DELL: Objection to form. A. I'm looking for those results in the paper. BY MS. BROWN: Q. In forming your opinion in the case, did you consider those? MS. O'DELL: Object to the form. A. I need to remind myself what those results were. BY MS. BROWN: Q. Okay. I'll direct you to Table 2 of the paper, which in my copy is 1414. A. I see that. And what was your question?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	that's what I'm looking for in the results, and I don't see it. If you know where it is, you can point it out to me. Q. Here's what I want to ask you about. In two thousand you looked at this table, right, you considered this subgroup analysis? A. Yes. Q. Because you would agree with Schildkraut, that recall bias, particularly where there's been a lot of lawsuit attention, is important to investigate, correct? MS. O'DELL: Object to the form. A. Recall bias is always something to investigate. BY MS. BROWN: Q. But it's it could be particularly acute in the context of a lot of media attention due to lawsuits, right?

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1	Page 306		Page 308
	A. Something to look at.	1	A. What I'm reading, it says, "In
2	BY MS. BROWN:	2	2014 and later, we observed an increase in
3	Q. And one of the things	3	any powder use. Although increased, these
4	Schildkraut actually did in its analysis, was	4	exposure prevalences were not statistically
5	it controlled for the recall bias it tried	5	significant for those interviewed before
6	to control for that recall bias, right?	6	2014."
7	A. Well, it looked at it, yes.	7	BY MS. BROWN:
8	Q. And the reason it felt it had	8	Q. Did you consider the author's
9	to control he felt she felt she had to	9	conclusion that there was a statistically
10	control for it was because she found a	10	significant effect modification by year of
11	statistically significant effect modification	11	interview when you reviewed this paper?
12	by year of interview, right?	12	MS. O'DELL: Object to the
13	MS. O'DELL: Object to the	13	form.
14	form.	14	A. Yes. But yes, but this does
15	BY MS. BROWN:	15	not clarify why that would be, because there
16	Q. And that conclusion is at the	16	was no statistical difference in reported
17	end of the results second paragraph of the	17	use.
18	results on page 1413. Do you recall	18	BY MS. BROWN:
19	reviewing that?	19	Q. And what happened, Doctor, if
20	A. I don't see anything that says	20	you look at Table 2, is that prior to
21	about the year of year of review.	21	those folks who were interviewed about
22	Q. The second paragraph in the	22	whether or not they had used powder before
23	results section of the paper concludes, "A	23	2014, 34 percent of the controls reported it
24	test for effect modification by year of	24	and about 36 and a half percent of the cases
24	test for effect modification by year of	24	and about 30 and a nan percent of the cases
	Page 307		Page 309
1	interview was statistically significant with	1	reported it, right?
2	P equaling 0.005."	2	MS. O'DELL: Object to the
3	Do you see that?	3	form.
4	MS. O'DELL: Object to the	4	BY MS. BROWN:
5	form.	5	Q. Do you see me
6	A. Okay. "Although increased,	6	A. I see that.
7	exposure prevalences were not significantly	7	Q. And then when they stratified
8	different from those interviewed before	8	by interview date and they asked people after
9	2014."	9	the lawsuits if they had used powder, the
10	So the exposure was no	10	folks who did not get ovarian cancer reported
	different.	11	it at about the same percentage, right, 34.4
11		1	
	BY MS. BROWN:	12	percent?
12	BY MS. BROWN: O. Well, it was and the authors	12 13	percent? MS. O'DELL: Object to the
12 13	Q. Well, it was and the authors	13	MS. O'DELL: Object to the
12 13 14	Q. Well, it was and the authors concluded that they couldn't rule it out as	13 14	MS. O'DELL: Object to the form.
12 13 14 15	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they?	13 14 15	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent.
12 13 14	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form.	13 14 15 16	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN:
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12 13 14 15 16 17 18	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form. A. It was not statistically different.	13 14 15 16 17 18	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN: Q. Well, 34 and 34.4. A. Oh, I'm sorry. After
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12 13 14 15 16 17 18 19 20	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form. A. It was not statistically different. BY MS. BROWN: Q. They found a statistically	13 14 15 16 17 18 19 20	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN: Q. Well, 34 and 34.4. A. Oh, I'm sorry. After Q. You see that? Any genital use. A. Yes.
12 13 14 15 16 17 18 19 20 21	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form. A. It was not statistically different. BY MS. BROWN: Q. They found a statistically significant effect modification. Do you see	13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN: Q. Well, 34 and 34.4. A. Oh, I'm sorry. After Q. You see that? Any genital use. A. Yes. Q. Okay. So 34 percent of people
12 13 14 15 16 17 18 19 20 21 22	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form. A. It was not statistically different. BY MS. BROWN: Q. They found a statistically significant effect modification. Do you see that conclusion?	13 14 15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN: Q. Well, 34 and 34.4. A. Oh, I'm sorry. After Q. You see that? Any genital use. A. Yes. Q. Okay. So 34 percent of people who did not have ovarian cancer reported talc
12 13 14 15 16 17 18 19 20 21	Q. Well, it was and the authors concluded that they couldn't rule it out as inflating the odds ratios, didn't they? MS. O'DELL: Objection, form. A. It was not statistically different. BY MS. BROWN: Q. They found a statistically significant effect modification. Do you see	13 14 15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. Yes, 30 and 42 percent. BY MS. BROWN: Q. Well, 34 and 34.4. A. Oh, I'm sorry. After Q. You see that? Any genital use. A. Yes. Q. Okay. So 34 percent of people

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	Page 310		Page 312
1	reported talc use after 2014, right?	1	correct?
2	A. Yes.	2	A. Yes.
3	Q. That's about exactly the same,	3	Q. And what method did you employ
4	correct?	4	to assure yourself that those results were
5	A. Yes. Yes.	5	not confounded by recall bias?
6	Q. But as it relates to folks who	6	A. By reviewing the methods and
7	unfortunately were diagnosed with ovarian	7	analyzing the methods, just like we did with
8	cancer, those who were asked that question	8	this paper.
9	before 2014, 36.5 percent of them reported	9	Q. And what did you find in the Wu
10	talc use, right?	10	article, for example, that leads you to
11	A. (Nods head.)	11	believe that the findings were not the
12	Q. And then that number shot up to	12	subject of recall bias?
13	51.5 percent after 2014, right?	13	A. I would have to read the Wu
14	MS. O'DELL: Object to the	14	materials and methods again. If you'd like
15	form.	15	me to, I will.
16	A. I see that.	16	Q. Well, did you undertake an
17	BY MS. BROWN:	17	analysis of the post-2014 papers with an
18	Q. And what the authors conclude	18	effort to investigate whether the findings
19	on page 1416, is that although because	19	were subject to recall bias? That's my
20	of this is I'm reading from 1416, the	20	question.
21	first full sentence of the second column.	21	MS. O'DELL: Object to the
22	"Because of publicity, we adjusted for date	22	form. She's answered your question.
23	of interview. However, there is still a	23	A. When I reviewed all of the
24	possibility that recall bias may have caused	24	papers, that was one of the things bias is
	Page 311		Page 313
1	some inflation of the OR" or the odds	1	one of the things you wanted to I wanted
2	ratios, correct?	2	to look at and I looked at. And if you're
3	A. But if you read the rest of	3	asking me specifically about this one, you
4	that study, "Our data do not support that	4	know, I can read through it and tell you what
5	recall bias alone before or after 2014 would	5	it was specifically.
6	account for the associations with body powder	6	BY MS. BROWN:
7	and epithelial ovarian cancer. It was not	7	Q. No, I don't need specifics of
8	statistically significantly different."	8	the study. I was asking for your
9	Q. Did you consider the author's	9	methodology. How do you how when you
10	finding as it related to recall bias in	10	evaluate a paper post-2014, how do you
11	evaluating the Schildkraut paper?	11	what methodology do you employ to make sure
12	A. I did.	12	that the results are not inflated by the
	Q. And would you agree that	13	lawsuit media attention?
13	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14	MS. O'DELL: Objection to form,
14	particularly given the media attention to		•
14 15	lawsuits beginning in 2014, that recall bias	15	asked and answered.
14 15 16	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies?	15 16	asked and answered. A. In all of the studies, I review
14 15 16 17	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically	15 16 17	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of
14 15 16 17 18	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change	15 16 17 18	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not
14 15 16 17 18	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change in reporting, it might it might be	15 16 17 18 19	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not every study compared before 2014 and after
14 15 16 17 18 19	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change in reporting, it might it might be something to consider, but there was not.	15 16 17 18 19 20	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not every study compared before 2014 and after 2014. This one did. They found no
14 15 16 17 18 19 20 21	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change in reporting, it might it might be something to consider, but there was not. Q. All of the studies that you	15 16 17 18 19 20 21	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not every study compared before 2014 and after 2014. This one did. They found no significant difference in recall of use.
14 15 16 17 18 19 20 21	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change in reporting, it might it might be something to consider, but there was not. Q. All of the studies that you identified or the three studies you	15 16 17 18 19 20 21 22	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not every study compared before 2014 and after 2014. This one did. They found no significant difference in recall of use. BY MS. BROWN:
14 15 16 17 18 19 20 21	lawsuits beginning in 2014, that recall bias is a concern of the case-control studies? A. If there was a statistically significant change and difference in change in reporting, it might it might be something to consider, but there was not. Q. All of the studies that you	15 16 17 18 19 20 21	asked and answered. A. In all of the studies, I review the methodology, I look for any evidence of bias, recall bias or anything else. Not every study compared before 2014 and after 2014. This one did. They found no significant difference in recall of use.

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	Page 314		Page 316
1	bias could not be ruled out. Did you	1	in young adulthood; is that right?
2	consider that?	2	MS. O'DELL: Object to the
3	A. When you when I look at	3	form.
4	their methods that was their that was	4	A. I assumed they started using
5	their interpretation of the data as a	5	powder sometime after menarche.
6	possible explanation. When I look at the	6	BY MS. BROWN:
7	results, the results showed that there was no	7	Q. Okay. And the average age of
8	statistically significant difference between	8	menarche is 12; is that right?
9	before and after 2014.	9	A. I think it's ten in the US now.
10	Q. And so as it relates to their	10	I know.
11	conclusion, do you discount that?	11	Q. My gosh. Good thing I have
12	MS. O'DELL: Object to the	12	boys. You say in your report that the
13	form.	13	latency period for ovarian cancer is at least
14	A. When I read conclusions of this	14	20 years, correct?
15	paper or any paper, these are these are	15	A. Yes.
16	possible explanations. It's not facts. The	16	Q. Okay. And you would agree with
17	facts are the results.	17	me that most of the prospective studies
18	BY MS. BROWN:	18	enrolled women in their sort of mid
19	Q. And did you discount the	19	middle-age women to postmenopause women, so
20	statistically significant effect modification	20	women in their 40s and 50s, correct?
21	by interview year and date?	21	A. Yes.
22	A. No.	22	Q. And so if those women began
23	MS. O'DELL: Object to form.	23	using powder, as IARC concludes, in young
24	A. That was statistically	24	adulthood, they would have been approximately
	Page 315		Page 317
1	significant.	1	anywhere from, you know, ten- to 20- to
1 2	significant. BY MS. BROWN:	1 2	anywhere from, you know, ten- to 20- to 30-year users at the time they enrolled in
	-	1	30-year users at the time they enrolled in
2	BY MS. BROWN:	2	30-year users at the time they enrolled in the study, correct?
2	BY MS. BROWN: Q. You considered that?	2 3	30-year users at the time they enrolled in
2 3 4	BY MS. BROWN: Q. You considered that? A. Yes.	2 3 4	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the
2 3 4 5	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break.	2 3 4 5	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for
2 3 4 5 6	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m.	2 3 4 5 6	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form.
2 3 4 5 6 7	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off	2 3 4 5 6 7	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they
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2 3 4 5 6 7 8 9	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.)	2 3 4 5 6 7 8	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN:
2 3 4 5 6 7 8 9	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the	2 3 4 5 6 7 8 9	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did
2 3 4 5 6 7 8 9 10	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m.	2 3 4 5 6 7 8 9 10 11	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used
2 3 4 5 6 7 8 9 10 11 12	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN:	2 3 4 5 6 7 8 9 10 11 12	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years?
2 3 4 5 6 7 8 9 10 11 12 13	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the	2 3 4 5 6 7 8 9 10 11 12 13	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC	2 3 4 5 6 7 8 9 10 11 12 13 14	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of
2 3 4 5 6 7 8 9 10 11 12 13 14	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine	2 3 4 5 6 7 8 9 10 11 12 13 14 15	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine hygiene is acquired in young adulthood?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor? A. There was not a statistically
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine hygiene is acquired in young adulthood? Approximately 80 percent of the women who use powder start before the age of 25? Do you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor? A. There was not a statistically significant increased risk in those women. Q. How did how does your
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine hygiene is acquired in young adulthood? Approximately 80 percent of the women who use powder start before the age of 25? Do you agree with that?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor? A. There was not a statistically significant increased risk in those women. Q. How did how does your understanding of when powder use generally
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine hygiene is acquired in young adulthood? Approximately 80 percent of the women who use powder start before the age of 25? Do you agree with that? A. I'm going to agree with you on	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor? A. There was not a statistically significant increased risk in those women. Q. How did how does your understanding of when powder use generally begins in women and the latency period for
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MS. BROWN: Q. You considered that? A. Yes. MS. BROWN: Let's take a break. THE VIDEOGRAPHER: Going off the record. The time is 3:24 p m. (Recess taken from 3:24 p m. to 3:40 p m.) THE VIDEOGRAPHER: Back on the record. The time is 3:40 p m. BY MS. BROWN: Q. Dr. Wolf, in evaluating the talc epidemiology, do you agree with IARC that the use of talcum powder for feminine hygiene is acquired in young adulthood? Approximately 80 percent of the women who use powder start before the age of 25? Do you agree with that? A. I'm going to agree with you on adulthood.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	30-year users at the time they enrolled in the study, correct? MS. O'DELL: Object to the form. A. I don't think we know that for sure because they weren't asked when they started or how long they used it. BY MS. BROWN: Q. Did you consider that WHI did do a subgroup analysis on women who used powder for more than 20 years? A. Yes. Q. And what was the finding of that, Doctor? A. There was not a statistically significant increased risk in those women. Q. How did how does your understanding of when powder use generally begins in women and the latency period for ovarian cancer, how does that inform your

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1 form. 2 A. The only thing that prospective 3 studies looked at was one point in time, so we don't know how long. You can't you can't make a determination of a study based on thinking that's how long they used it. 7 BY MS. BROWN: 8 Q. Well, if the prospective study asked a 55-year-old if she was a talcum powder user, you would agree with me, based 11 on your understanding of when people began using talcum powder, that she likely started 12 in young adulthood, right? 14 MS. O'DELL: Objection to form. 15 A. I think the question was often ever use, and so I don't know if she started in young adulthood and did if for 20 or 30 1 years, or she started at middle age and did 19 it later, or she lived in the North and 21 started using it because she was hotter, 22 because sweating is often a reason that 23 people - women give for using powder, and men. I don't know that I can infer that from 24 men. I don't know that I can infer that from 25 men. I don't know that I can infer that from 26 men. I don't know that I can infer that from 27 ms. O'DELL: If you need to look at that study		Page 318		Page 320
A. The only thing that prospective studies looked at was one point in time, so we don't know how long. You can't — you can't make a determination of a study based of on thinking that's how long they used it. BY MS. BROWN: Q. Well, if the prospective study asked a 55-year-old if she was a taleum powder user, you would agree with me, based on your understanding of when people began using taleum powder, that she likely started in young adulthood, right? MS. O'DELL: Objection to form. MS. O'DELL: Objection to form. MS. O'DELL: Objection to form. Section B, third paragraph, the conclusion of there, that, "The use of taleum powder for feminine hygiene is acquired in young adulthood and did it for 20 or 30 years, or she started at middle age and did years, or she started at middle age and did is trace at single the cause she was hotter, and the moved to the South and started using it because she was hotter, and the moved to the South and the people — women give for using powder, and men. I don't know that I can infer that from the forth one use body powder start before the age of 25. Do you agree with that? Page 319 the data in the study. BY MS. BROWN: Q. Well, IARC has stated that 80 percent of women who use body powder start before the age of 25. Do you agree with that? Page 319 the data in the study. BY MS. BROWN: A. Yeah, I need to look at the laRC paper. BY MS. BROWN: A. Yeah, I need to look at the laRC paper. BY MS. BROWN: A. Yeah in the Morth and the would have been age 36 to 61 in 1982, right? A. It hought we were talking about the Nurses Health Study? A. How women, majority is about the Nurses Health in the women whouse hook and that study. Q. We have marked that as Exhibit 13. And it's page 305. A. Here we go. MS. O'DELL: Here we go. MS. O'DE	1	form.	1	the witness has it.
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MS. BROWN: Yeah. She had 24 yes.	1 22	looking at 20109	1 23	A So some of them might have
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81 (Pages 318 to 321)

Case 3:16-md-02738-MAS-RLS Document 9896-1 Filed 05/30/19 Page 83 of 183 PageID: 73105 Judith K. Wolf, M.D.

	Page 322		Page 324
1	Q. Well, at least everyone who was	1	BY MS. BROWN:
2	enrolled would have been using it for at	2	Q. In evaluating the Women's
3	least ten years, right?	3	Health Initiative data, you did consider the
4	MS. O'DELL: Object to the	4	data that they had on folks who reported
5	form.	5	using powder for more than 20 years, right?
6	A. We don't know that. We're	6	A. Yes.
7	inferring from another paper where it was	7	Q. And you know that that resulted
8	reported that 80 percent of women use it	8	in a nonstatistically significant finding,
9	before age 25, that women who were asked did	9	correct?
10	they ever use it had been using it their	10	A. That's correct.
11	whole since age 25.	11	Q. And so your critique, as it
12	BY MS. BROWN:	12	relates to the fact that the cohorts were not
13	Q. And in evaluating the	13	long enough, does not relate to the Women's
14	epidemiology, did you make that conclusion?	14	Health Initiative; is that right?
15	MS. O'DELL: Object to the	15	MS. O'DELL: Object to the
16	form.	16	form.
17	A. I didn't make that inference	17	A. My critique does relate to the
18	because it wasn't clear in the paper, that	18	Women's Health Initiative, because even if
19	that was something that was considered or	19	they were using it for 20 more than 20
20	asked about how long they used it.	20	years let me step back and say this, so
21	BY MS. BROWN:	21	that it's clear in my mind.
22	Q. When you evaluated the Nurses	22	I don't know at what point in
23	Health Study, did you believe that the women	23	their use that 20 years till cancer occurs
24	ages 36 to 61, who were asked about talcum	24	starts. I don't know if it's after one dose,
	ages as as any mass were agreed as a surface.		suits. Tuest thie with the unter one dose,
	Page 323		Page 325
	5		1490 313
1	powder use in 1982, had just begun using	1	if it's after a year, if it's after five
1 2		1 2	
	powder use in 1982, had just begun using		if it's after a year, if it's after five
2	powder use in 1982, had just begun using talcum powder?	2	if it's after a year, if it's after five years, if it's after ten years. When does
2	powder use in 1982, had just begun using talcum powder? A. I don't know have any	2 3	if it's after a year, if it's after five years, if it's after ten years. When does that zero point go to 20 years, and I don't
2 3 4	powder use in 1982, had just begun using talcum powder? A. I don't know have any information	2 3 4	if it's after a year, if it's after five years, if it's after ten years. When does that zero point go to 20 years, and I don't think there's any way we can know that.
2 3 4 5	powder use in 1982, had just begun using talcum powder? A. I don't know have any information MS. O'DELL: Object to form.	2 3 4 5	if it's after a year, if it's after five years, if it's after ten years. When does that zero point go to 20 years, and I don't think there's any way we can know that. BY MS. BROWN: Q. Is what you're saying, Doctor, you don't know how much talcum powder
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	Page 326		Page 328
1	period for ovarian cancer?	1	dose versus somebody else.
2	A. I'm going to answer you the way	2	For instance, the
3	I answer all of my patients. And I don't	3	African-Americans who have, genetically, a
4	think we know for sure. The only data that	4	low it appears a low risk of ovarian
5	we actually have that I'm aware of is the	5	cancer, there are individual differences in
6	Hiroshima data, that 15 to 20 years after the	6	patients' intrinsic risk as well as any
7	atomic bomb was dropped, but when patients	7	external risks.
8	come to me and they say, "How long had I had	8	BY MS. BROWN:
9	this cancer? When did this cancer develop?"	9	Q. Ware you aware of any
10	Well, we never sit and watch somebody from	10	scientific article that has attempted to
11	the time they have the first hint of cancer,	11	quantify the latency period between first
12	to know how long it takes to develop, or	12	exposure to perineal use of talc and the
13	somebody who has a precancerous lesion,	13	development of ovarian cancer?
14	although there isn't a good one for ovarian	14	MS. O'DELL: Object to the
15	cancer, so we don't know the answer to that.	15	form.
16	Q. So in fact, Doctor, the latency	16	A. As far as my understanding, we
17	period for ovarian cancer could be even	17	don't have that information. And I think
18	shorter than 15 or 20 years?	18	from my interpretation of reading the papers,
19	MS. O'DELL: Objection to form.	19	it might be hard to confirm or deny that.
20	A. I don't know the latency period	20	BY MS. BROWN:
21	for sure. The only data that I you know,	21	Q. Would you agree that one of the
22	that is clear is the data after the bombs,	22	limitations of the talc epidemiology is the
23	and I think, could it be shorter, could it be	23	self-reported nature of talcum powder use and
24	longer	24	exposure?
	207		
	Page 327		Page 329
1	BY MS. BROWN:	1	
1 2		1 2	MS. O'DELL: Objection to form. A. Anytime there's self-reporting
	BY MS. BROWN:		MS. O'DELL: Objection to form.
2	BY MS. BROWN: Q. We don't know. Fair?	2	MS. O'DELL: Objection to form. A. Anytime there's self-reporting
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	Page 330		Page 332
1	had any of those, except the Wu.	1	frequency, if you look at Table 1 continued
2	BY MS. BROWN:	2	on the very next page, there was while
3	Q. And those studies did not	3	there was an increase of use up to 7200
4	for example, Cramer did not show a dose	4	applications, after 7200 applications, the
5	response with duration of use, right?	5	use decreased, right?
6	A. I thought they showed an	6	MS. O'DELL: Object to the
7	increase with frequency and duration of use.	7	form.
8	Q. And so if you look, for	8	A. No, the top part of that, it
9	example, at Table 1 of Cramer, we actually	9	goes up, it goes down, it goes back up. The
10	see a decrease in the risk after 35 years,	10	bottom part of that the last part of that
11	right?	11	table is assuming 12 months per year
12	A. Can I	12	missing these are people with missing
13	Q. Absolutely.	13	months.
14	A. Is that one of the exhibits?	14	BY MS. BROWN:
15	Because it's not in there.	15	Q. And so you agree there's not a
16	Q. Right.	16	linear increase in frequency of application,
17	A. Or I can't find it.	17	correct?
18	Q. We marked it as 11.	18	A. In this paper, there's not a
19	A. Yeah.	19	linear increase, but there is an increase
20	MS. O'DELL: Here we go.	20	with more frequent application. And I want
21	A. Years used. So I'm looking at	21	to say, again, and I think I've said this
22	Table 1. Is that what you're looking at?	22	earlier, is that what's a dose? Frequency of
23	BY MS. BROWN:	23	use, in my head, I can't get my head around,
24	Q. Right. If you look at the	24	is it the same amount every time? There
1	years used, you'd agree with me that there's	1	isn't it's not like it's a 5-milligram
2	actually a slight decreased risk after 35	2	pill. It's powder in your panties. And to
3	years of use?	3	look at any of this data and try to
4	A. But there's an increased risk	4	equivilate dose, I think it's challenging.
5	between 8 and 20, up to 35, and all of those	5	Q. One of the things you say in
6	are fairly similar.	6	your report is, given those challenges, the
7	Q. And what Cramer himself	7	evaluation of a dose response was not as
8	includes concludes, is that the trend for	8	important to your analysis; is that right?
9	years used was flat, right?	9	A. Yes.
10	A. Yes.	10	MS. O'DELL: Object to form.
11	Q. So what he did not find was	11	BY MS. BROWN:
12	that the longer you used talcum powder, a	12	Q. And what and that's
13	significant increase in your risk of ovarian	13	different than the Bradford Hill criteria,
14	cancer, correct?	14	right?
15	MS. O'DELL: Object to the	15	MS. O'DELL: Object to the
16	form.	16	form.
17	A. The more frequently you used	17	A. That's one of the tenets of the
18	it, an increase.	18	Bradford Hill. It's not the only one.
19	BY MS. BROWN:	19	BY MS. BROWN:
20	Q. Right. But as to the number of	20	Q. Right. But in your analysis,
21	years, he did not find any dose response,	21	you determined that that factor of the
22	correct?	22	Bradford Hill was less important, correct?
23	A. That's correct.	23	A. Because it's hard to
	11. That's correct.	1 2 2	A. Decause it's hard to
	O And even to be fair as to the	2.4	quantitate as Liust stated what's a dose
24	Q. And even to be fair as to the	24	quantitate, as I just stated, what's a dose.

84 (Pages 330 to 333)

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	Page 334		Page 336
1	Even if you know for sure how many times	1	their all of those things are hard to
2	someone used talcum powder, you don't know	2	quantify.
3	what dose they used and where it went. Did	3	BY MS. BROWN:
4	it go all in their panties? Did it go on the	4	Q. Is there any scientific data
5	floor? Did it got in their groins? Did go	5	that you are aware of that shows a particular
6	it up their backside? How much did they use?	6	percentage of perineal powder reaching the
7	None of these papers attempted	7	ovary?
8	to and understandably it's hard to quantitate	8	A. I'm not aware that there's any
9	how much is a dose. And so given that it's	9	data that's ever looked at that.
10	challenging to answer the question about dose	10	Q. For purposes of your opinion,
11	response, it's hard to put a lot of weight on	11	however, you have assumed that some amount of
12	that.	12	the powder that's applied perineally reaches
13	Q. And what you say in your report	13	the ovary; is that right?
14	at page 15, is that given the limitations of	14	MS. O'DELL: Object to the
15	the data, and those would be the limitations	15	form.
16	you just described, right?	16	A. I assume that there's migration
17	A. Yes.	17	of talc particles through the open genital
18	MS. O'DELL: Objection to form.	18	tract to get to the ovary.
19	BY MS. BROWN:	19	BY MS. BROWN:
20	Q. And what that means is that	20	Q. And for your opinion to hold
21	this product, the use of this product is	21	true, that talcum powder that reaches the
22	difficult to quantify, correct?	22	ovary causes ovarian cancer, is there a
23	MS. O'DELL: Object to the	23	particular amount of talcum powder in your
24	form.	24	mind that needs to reach the ovary?
	Page 335		D 227
	rage 333		Page 33/
1		1	Page 337
1	A. The dose of using this product	1 2	MS. O'DELL: Objection to form.
2	A. The dose of using this product is difficult to quantify.	2	MS. O'DELL: Objection to form. A. I think I have no idea what
2	A. The dose of using this product is difficult to quantify. BY MS. BROWN:	2 3	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that
2 3 4	A. The dose of using this product is difficult to quantify.BY MS. BROWN:Q. Right. And when you say "the	2 3 4	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone.
2 3 4 5	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just	2 3 4 5	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN:
2 3 4 5 6	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that	2 3 4 5 6	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific
2 3 4 5 6 7	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that somebody puts on their perineum or on their	2 3 4 5 6 7	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific literature on which you rely that establishes
2 3 4 5 6 7 8	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that somebody puts on their perineum or on their underwear, right?	2 3 4 5 6 7 8	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific literature on which you rely that establishes that individuals are susceptible to talcum
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that somebody puts on their perineum or on their underwear, right? MS. O'DELL: Object to form. A. Their exposure dose, I'm referring to now wherever they put it on their perineum. BY MS. BROWN: Q. So are you would you agree that both the amount that they used is difficult to quantify? Fair? A. Yes. Q. As well as the amount that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific literature on which you rely that establishes that individuals are susceptible to talcum powder in a different way? A. Individuals are susceptible to all cancer risk factors in a different way. Everyone who has a BRC1 mutation doesn't get ovarian cancer. Everyone who has a lynch syndrome mutation doesn't get colon cancer. There are individual differences in risk factors. And everyone who uses postmenopausal hormones doesn't get ovarian cancer or breast cancer. So there are
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that somebody puts on their perineum or on their underwear, right? MS. O'DELL: Object to form. A. Their exposure dose, I'm referring to now wherever they put it on their perineum. BY MS. BROWN: Q. So are you would you agree that both the amount that they used is difficult to quantify? Fair? A. Yes. Q. As well as the amount that actually reaches the ovary, right?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific literature on which you rely that establishes that individuals are susceptible to talcum powder in a different way? A. Individuals are susceptible to all cancer risk factors in a different way. Everyone who has a BRC1 mutation doesn't get ovarian cancer. Everyone who has a lynch syndrome mutation doesn't get colon cancer. There are individual differences in risk factors. And everyone who uses postmenopausal hormones doesn't get ovarian cancer or breast cancer. So there are individual differences. Everybody's made up
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. The dose of using this product is difficult to quantify. BY MS. BROWN: Q. Right. And when you say "the dose is difficult to quantify," that just you're referring to just the dose that somebody puts on their perineum or on their underwear, right? MS. O'DELL: Object to form. A. Their exposure dose, I'm referring to now wherever they put it on their perineum. BY MS. BROWN: Q. So are you would you agree that both the amount that they used is difficult to quantify? Fair? A. Yes. Q. As well as the amount that actually reaches the ovary, right? MS. O'DELL: Object to the form.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. O'DELL: Objection to form. A. I think I have no idea what that amount would be and I don't know that that amount is the same for everyone. BY MS. BROWN: Q. Is there any scientific literature on which you rely that establishes that individuals are susceptible to talcum powder in a different way? A. Individuals are susceptible to all cancer risk factors in a different way. Everyone who has a BRC1 mutation doesn't get ovarian cancer. Everyone who has a lynch syndrome mutation doesn't get colon cancer. There are individual differences in risk factors. And everyone who uses postmenopausal hormones doesn't get ovarian cancer or breast cancer. So there are individual differences. Everybody's made up differently, has a different immune response. So it only makes sense to me that if it's

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	Page 338		Page 340
1	Q. Based on your review of the	1	or may not be related to the patient's
2	epidemiology, is it your opinion that	2	cancer.
3	individuals are put at risk for ovarian	3	Q. Have you in connection with
4	cancer through perineal exposure more likely	4	that opinion, Dr. Wolf, have you evaluated
5	than through inhalation of genital talcum	5	the epidemiology on the miners and millers of
6	powder?	6	cosmetic talcum powder?
7	MS. O'DELL: Object to the	7	A. I believe that's in the IARC
8	form.	8	paper or study.
9	A. In my review of the	9	Q. You recall that IARC points to
10	epidemiology, all of the studies are	10	that as some of the best evidence, that
11	particularly looking at perineal exposure.	11	inhalation of nonasbestiform tale is not
12	So through through that lens, I believe	12	carcinogenic?
13	that most of the information in those studies	13	MS. O'DELL: Object to the
14	is looking at that particular question,	14	form.
15	perineal exposure, not necessarily	15	A. I don't recall that specific
16	inhalation.	16	conclusion. I'd have to look at it again.
17	BY MS. BROWN:	17	So are we talking about IARC 10? Which one
18	Q. When you're evaluating a	18	are you
19	patient for a suspected ovarian cancer, do	19	BY MS. BROWN:
20	you inquire about any markers of asbestos	20	Q. I'm just asking if you recall
21	exposure, like pleural plaques or	21	and if you considered that conclusion?
22	mesothelioma or anything like that,	22	MS. O'DELL: Could you repeat
23	interstitial fibrosus?	23	the question, please?
24	A. Do I inquire about them? Do	24	the question, preuse.
	1		
	Page 339		Page 341
1	you mean do I investigate	1	BY MS. BROWN:
2	Q. Yes.	2	 Q. Do you recall and did you
3	A :C41 1 C41		
	A if they have any of those,	3	consider IARC's conclusion, that some of the
4	yes.	3 4	consider IARC's conclusion, that some of the best epidemiology as it relates to inhalation
	•		
4	yes.	4	best epidemiology as it relates to inhalation
4 5	yes. Q. Do you believe that if talcum	4 5	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and
4 5 6	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that	4 5 6	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc?
4 5 6 7	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related	4 5 6 7	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that.
4 5 6 7 8	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related diseases, like mesothelioma?	4 5 6 7 8	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that. Q. Does that make sense to you as
4 5 6 7 8 9	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related diseases, like mesothelioma? MS. O'DELL: Object to the	4 5 6 7 8 9	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that. Q. Does that make sense to you as a gynecologic oncologist, that one of the
4 5 6 7 8 9	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related diseases, like mesothelioma? MS. O'DELL: Object to the form.	4 5 6 7 8 9	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that. Q. Does that make sense to you as a gynecologic oncologist, that one of the best places to look in the epi world would be
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related diseases, like mesothelioma? MS. O'DELL: Object to the form. A. Do I believe that if talcum powder is contaminated with asbestos, would it cause mesothelioma? BY MS. BROWN: Q. Uh-huh. A. That's your question? I do believe that talcum powder is contaminated with asbestos and I believe that it causes—it can increase the risk of both mesothelioma of the ovary and epithelial ovarian cancer. And I'm investigating for any signs of	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that. Q. Does that make sense to you as a gynecologic oncologist, that one of the best places to look in the epi world would be the folks who are exposed to inhalation the most? MS. O'DELL: Object to the form. A. It makes sense to look at a group of people who are going to be exposed. BY MS. BROWN: Q. And in concluding, as you have done here today, Doctor, that cosmetic talcum powder is contaminated with asbestos, how, if at all, did you consider the results of the
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	yes. Q. Do you believe that if talcum powder was contaminated with asbestos, that it would be causing asbestos-related diseases, like mesothelioma? MS. O'DELL: Object to the form. A. Do I believe that if talcum powder is contaminated with asbestos, would it cause mesothelioma? BY MS. BROWN: Q. Uh-huh. A. That's your question? I do believe that talcum powder is contaminated with asbestos and I believe that it causes—it can increase the risk of both mesothelioma of the ovary and epithelial ovarian cancer. And I'm investigating for any signs of abnormality in the chest, I'm looking for any	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	best epidemiology as it relates to inhalation of a nonasbestiform talc, is the miners and the millers of cosmetic talc? A. I do recall that. Q. Does that make sense to you as a gynecologic oncologist, that one of the best places to look in the epi world would be the folks who are exposed to inhalation the most? MS. O'DELL: Object to the form. A. It makes sense to look at a group of people who are going to be exposed. BY MS. BROWN: Q. And in concluding, as you have done here today, Doctor, that cosmetic talcum powder is contaminated with asbestos, how, if
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1	form, asked and answered.	1	there's a lot of abnormalities in the lung
2	A. So I'm not sure what you're	2	from breathing in talcum powder. And I'm
3	asking. What I believe I'm hearing is,	3	losing myself because I'm not sure of the
4	you're asking if there's asbestos in talcum	4	question again. Should can you let me
5	powder, why don't miners and millers get	5	tell you what I think you're asking me.
6	ovarian cancer?	6	BY MS. BROWN:
7	BY MS. BROWN:	7	Q. Why don't I just rephrase the
8	Q. Exactly. Have you considered	8	question and try to do this bit by bit.
9	the fact that that epidemiology shows no	9	A. Okay.
10	mesothelioma?	10	Q. You would agree that
11	MS. O'DELL: Object to the	11	mesothelioma is a disease that is often
12	form.	12	caused by asbestos exposure?
13	A. That's a different question,	13	A. Yes.
14	because I'm not talking about mesothelioma.	14	Q. Some people refer to it as a
15	I'm talking about epithelial ovarian cancer.	15	signature asbestos-related disease, correct?
16	BY MS. BROWN:	16	MS. O'DELL: If you know.
17	Q. And a second ago I asked you if	17	A. I don't know that term
18	you thought that tale was contaminated with	18	"signature." That's not something that
19	asbestos and people were really breathing it	19	BY MS. BROWN:
20	in, shouldn't it be causing mesothelioma in	20	Q. And you have offered the
21	women? And I thought your testimony was yes.	21	opinion here today that talcum powder is
22	MS. O'DELL: Object to the	22	contaminated with asbestos, right?
23	form.	23	A. Yes.
24	A. No, you asked me do I	24	Q. And you have offered the
	Page 343		
	rage 343		Page 345
1	investigate if women who I think might have	1	opinion that perineal use of talcum powder
1 2	investigate if women who I think might have ovarian cancer might have abnormalities in	1 2	opinion that perineal use of talcum powder could reach the ovaries via inhalation,
	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated		opinion that perineal use of talcum powder
2 3 4	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated with mesothelioma, and I said, yes, I do,	2	opinion that perineal use of talcum powder could reach the ovaries via inhalation, correct? A. Yes.
2 3 4 5	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated with mesothelioma, and I said, yes, I do, because women with ovarian cancer often have	2 3	opinion that perineal use of talcum powder could reach the ovaries via inhalation, correct? A. Yes. Q. And so my question to you is,
2 3 4 5 6	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated with mesothelioma, and I said, yes, I do, because women with ovarian cancer often have abnormalities in the chest. Usually if they	2 3 4	opinion that perineal use of talcum powder could reach the ovaries via inhalation, correct? A. Yes. Q. And so my question to you is, if talcum powder is really contaminated with
2 3 4 5 6 7	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated with mesothelioma, and I said, yes, I do, because women with ovarian cancer often have abnormalities in the chest. Usually if they do, it's from their ovarian cancer, but	2 3 4 5 6 7	opinion that perineal use of talcum powder could reach the ovaries via inhalation, correct? A. Yes. Q. And so my question to you is, if talcum powder is really contaminated with asbestos and if women who use it perineally
2 3 4 5 6 7 8	investigate if women who I think might have ovarian cancer might have abnormalities in the chest, including abnormalities associated with mesothelioma, and I said, yes, I do, because women with ovarian cancer often have abnormalities in the chest. Usually if they	2 3 4 5 6 7 8	opinion that perineal use of talcum powder could reach the ovaries via inhalation, correct? A. Yes. Q. And so my question to you is, if talcum powder is really contaminated with asbestos and if women who use it perineally really do inhale it, shouldn't they be
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1	MS. O'DELL: Object to the	1	BY MS. BROWN:
2	form.	2	Q. Does your current institution,
3	THE WITNESS: Are you just	3	the Community Health Practice, does it advise
4	objecting?	4	women that perineal use of talcum powder
5	MS. O'DELL: Yes.	5	causes ovarian cancer?
6	THE WITNESS: I wasn't sure if	6	A. So in my practice, it's me, a
7	I was supposed to answer or not.	7	physician's assistant and a nurse
8	A. In that study, those patients	8	practitioner and one other GYN oncologist. I
9	did not get mesothelioma. So again, the	9	do, my physician's assistant does, my nurse
10	question is, might talcum powder applied	10	practitioner does. I don't know about my
11	perineally cause ovarian cancer by via an	11	partner.
12	inhalation route? Yes, I think that could	12	Q. And we talked a little bit
13	happen. Do I think those people should be	13	earlier about when you started that practice.
14	getting mesothelioma, because I have evidence	14	Do you recall when you started telling
15	that that talcum powder is contaminated with	15	patients your belief that talcum powder use
16	mesothelioma? I don't know. Maybe.	16	causes ovarian cancer?
17	BY MS. BROWN:	17	A. I started asking my patients
18	Q. Did you look, in evaluating the	18	about their use and telling them to stop or
19	occupational studies that IARC relies on in	19	not use it once I started reviewing all of
20	concluding that heavy occupational exposure	20	the literature and formed my opinion.
21	to asbestos causes ovarian cancer, did you	21	Q. You made a motion, all the
22	look at how the relative risks for ovarian	22	literature that's in front of you, right?
23	cancer in those studies compared to the	23	A. Yes.
24	relative risks for mesothelioma?	24	Q. So you
	Page 347		Page 349
1	A 37	1	
	A. Yes.	1	MS. O'DELL: Which is not just
2	A. Yes. Q. And what was the conclusion	1 2	MS. O'DELL: Which is not just in front of you, but we're talking
2			•
	Q. And what was the conclusion	2	in front of you, but we're talking
3	Q. And what was the conclusion there, Doctor? A. The relative risks of	2 3	in front of you, but we're talking about what's on the side table as
3 4	Q. And what was the conclusion there, Doctor?	2 3 4	in front of you, but we're talking about what's on the side table as well.
3 4 5	Q. And what was the conclusion there, Doctor? A. The relative risks of mesothelioma is higher.	2 3 4 5	in front of you, but we're talking about what's on the side table as well. THE WITNESS: Yes.
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3 4 5 6 7	 Q. And what was the conclusion there, Doctor? A. The relative risks of mesothelioma is higher. Q. By how much? A. I can't remember. A lot. 	2 3 4 5 6 7	in front of you, but we're talking about what's on the side table as well. THE WITNESS: Yes. MS. BROWN: Fair. BY MS. BROWN:
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Case 3:16-md-02738-MAS-RLS Document 9896-1 Filed 05/30/19 Page 90 of 183 PageID: 73112 Judith K. Wolf, M.D.

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18 BY MS. BROWN: 19 Q. Let's mark this as Exhibit 20. 20 (Deposition Exhibit 20 marked 21 for identification.) 22 BY MS. BROWN: 23 Q. Handing you, Doctor, an article 24 entitled "The Future of Ovarian Cancer 25 strategies," by Judy Wolf, November 11th, 26 2 strategies," by Judy Wolf, November 11th, 27 2 doctor, as a gynecologic oncologis on this it's important to be truthful vomen when you write about issue women's health, right? 28 A. It is. 29 G. Okay. And certainly as a doctor, as a gynecologic oncologis on this it's important to be truthful vomen when you write about issue women's health, right? 29 G. Okay. And this article, dated 30 G. For women. 40 Doctor? First of all, is that your picture 41 poctor? First of all, is that your picture 52 next to Judy Wolf on the first page? 53 G. Por women. 44 Doctor, as a gynecologic oncologis oncologis. 45 doctor, as a gynecologic oncologis oncologis oncologis oncologis oncologis oncologis oncologis. 46 doctor, as a gynecologic oncologis oncologis oncologis oncologis. 47 doctor, as a gynecologic oncologis oncologis oncologis. 48 women when you write about issue women when you write about issue women's health, right? 49 doctor, as a gynecologic oncologis oncologis oncologis. 50 doctor, as a gynecologic oncologis oncologis. 51 doctor, as a gynecologic oncologis oncologis. 52 doctor, as a gynecologic oncologis. 53 doctor, as a gynecologic oncologis. 54 doctor, as a gynecologic oncologis. 65 doctor, as a gynecologic oncologis. 66 doctor, as a gynecologic oncologis. 67 doctor, as a gynecologic oncologis. 68 doctor, as a gynecologic oncologis. 69 doctor, as a gynecologic oncologis. 60 doctor, as a gynecologic oncologis. 60 doctor, as a gynecologic oncologis. 61 doctor, as a gynecologic oncologis. 61 doctor, as a gynecologic oncologis. 62 doctor, as a gynecologic oncologis. 63 doctor, as a gynecologic oncologis. 64 doctor, as a gynecologic oncologis.	f diagnosis
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20 (Deposition Exhibit 20 marked 21 for identification.) 22 BY MS. BROWN: 23 Q. Handing you, Doctor, an article 24 entitled "The Future of Ovarian Cancer 25 Page 351 1 Diagnosis is Now - Through These 4 2 strategies," by Judy Wolf, November 11th, 3 2015. Is this an article that you wrote, 4 Doctor? First of all, is that your picture 5 next to Judy Wolf on the first page? 6 A. It is. 7 Q. Okay. And this article, dated 8 November 11th, 2015, has your byline and 9 picture, right? 1 Q. Okay. And do you recall, 1 Q. Okay. BROWN: 1 Q. Okay. And do you recall, 1 Q. Okay. BROWN: 1 Q. Okay. And do you were in the 1 private sector, authoring a number of 20 Q. The information contain Exhibit 20 was meant for patients 21 Exhibit 20 was meant for patients 22 A. For women. 24 A. For women. 24 A. For women. 25 Q. Okay. And certainly as a doctor, as a gynecologic oncologis oncologis on think it's important to be truthful women when you write about issu women's health, right? 4 women when you write about issu women's health, right? 5 MS. O'DELL: Object to the form. 8 November 11th, 2015, has your byline and 9 picture, right? 9 that was is untruthful. 10 A. It does. 10 BY MS. BROWN: 11 Q. I'm not suggesting that. 12 just asking you, that when you write about women when you write about issu women.	cologic:
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22 BY MS. BROWN: 23 Q. Handing you, Doctor, an article 24 entitled "The Future of Ovarian Cancer 24 A. For women. 24 Page 351 1 Diagnosis is Now - Through These 4 2 strategies," by Judy Wolf, November 11th, 3 2 doctor, as a gynecologic oncologis 3 2015. Is this an article that you wrote, 4 Doctor? First of all, is that your picture 5 next to Judy Wolf on the first page? 6 A. It is. 7 Q. Okay. And this article, dated 7 November 11th, 2015, has your byline and 9 picture, right? 9 that was is untruthful. 10 A. It does. 11 Q. Okay. And do you recall, 12 during the time period that you were in the 13 private sector, authoring a number of 22 A. For women. 23 Q. For women. 24 A. For women. 24 A. For women. 25 Q. Okay. And certainly as a doctor, as a gynecologic oncologis think it's important to be truthful women when you write about issured women's health, right? 4 women when you write about issured women's health, right? 5 mS. O'DELL: Object to the form. 6 A. I don't see anything on head that was is untruthful. 9 that was is untruthful. 10 Description of the private sector, authoring a number of the private sector, authoring a number of the private sector.	d in
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Page 351 Diagnosis is Now - Through These 4 strategies," by Judy Wolf, November 11th, Doctor? First of all, is that your picture next to Judy Wolf on the first page? A. It is. Q. Okay. And certainly as a doctor, as a gynecologic oncologis think it's important to be truthful vowmen when you write about issu women's health, right? A. It is. Q. Okay. And this article, dated November 11th, 2015, has your byline and picture, right? A. It does. Q. Okay. And do you recall, Q. Okay. And do you recall, during the time period that you were in the private sector, authoring a number of A. It ooks. A. It does. Doctor? First of all, is that your picture women when you write about issu women's health, right? MS. O'DELL: Object to the form. A. It don't see anything on head was is untruthful. Q. Okay. And do you recall, Q. I'm not suggesting that. Just asking you, that when you write about issu women.	
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4 Doctor? First of all, is that your picture 5 next to Judy Wolf on the first page? 6 A. It is. 7 Q. Okay. And this article, dated 8 November 11th, 2015, has your byline and 9 picture, right? 10 A. It does. 11 Q. Okay. And do you recall, 12 during the time period that you were in the 13 private sector, authoring a number of 4 women when you write about issu women's health, right? 5 MS. O'DELL: Object to to form. 8 A. I don't see anything on head that was is untruthful. 9 that was is untruthful. 11 Q. I'm not suggesting that. 12 just asking you, that when you write about issu women's health, right? 6 MS. O'DELL: Object to to form. 7 Q. I'm not see anything on head that was is untruthful. 9 Use anything on head that was is untruthful. 12 Just asking you, that when you write about issu women's health, right? 13 do often, information about women's health, right? 14 Women when you write about issu women's health, right? 15 Women's health, right? 16 MS. O'DELL: Object to to form. 18 A. I don't see anything on head that was is untruthful. 19 Use anything on head that was is untruthful. 10 BY MS. BROWN: 11 Q. I'm not suggesting that. 12 Just asking you, that when you write about issu women's health, right? 16 MS. O'DELL: Object to to form. 18 Department of the women's health, right? 19 Department of the women's health, right? 19 Department of the women's health, right? 10 MS. O'DELL: Object to to form. 10 Department of the women's health, right? 11 Just asking you will be a women's health, right? 12 Just asking you will be a women's health, right? 19 Department of the women's health, right? 10 Department of the women's health, right? 10 Department of the women's health, right? 11 Just asking you will be a women's health, right? 12 Just asking you will be a women's health, right? 11 Just asking you will be a women's health, right? 12 Just asking you will be a women's health, right?	, you
5 next to Judy Wolf on the first page? 6 A. It is. 7 Q. Okay. And this article, dated 8 November 11th, 2015, has your byline and 9 picture, right? 10 A. It does. 11 Q. Okay. And do you recall, 12 during the time period that you were in the 13 private sector, authoring a number of 5 women's health, right? 6 MS. O'DELL: Object to to form. 8 A. I don't see anything on head that was is untruthful. 9 that was is untruthful. 10 BY MS. BROWN: 11 Q. I'm not suggesting that. 12 just asking you, that when you wrighted the private sector, authoring a number of 13 do often, information about wome	
A. It is. Q. Okay. And this article, dated November 11th, 2015, has your byline and picture, right? A. It does. Q. Okay. And do you recall, during the time period that you were in the private sector, authoring a number of MS. O'DELL: Object to to form. A. I don't see anything on he that was is untruthful. BY MS. BROWN: 10 BY MS. BROWN: 11 Q. I'm not suggesting that. 12 just asking you, that when you write in the 13 do often, information about wome	ith
November 11th, 2015, has your byline and picture, right? A. It does. Q. Okay. And do you recall, larger during the time period that you were in the private sector, authoring a number of larger lar	ith
picture, right? A. It does. Q. Okay. And do you recall, during the time period that you were in the private sector, authoring a number of y that was is untruthful. BY MS. BROWN: 1 Q. I'm not suggesting that. 1 just asking you, that when you writed of often, information about wome	ith es concerning
10 A. It does. 11 Q. Okay. And do you recall, 12 during the time period that you were in the 13 private sector, authoring a number of 10 BY MS. BROWN: 11 Q. I'm not suggesting that. 12 just asking you, that when you write the private sector, authoring a number of 13 do often, information about wome	ith es concerning
11 Q. Okay. And do you recall, 12 during the time period that you were in the 13 private sector, authoring a number of 14 Q. I'm not suggesting that. 15 just asking you, that when you write do often, information about wome	ith es concerning ne
during the time period that you were in the private sector, authoring a number of 12 just asking you, that when you writed 13 do often, information about wome	ith es concerning ne
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private sector, authoring a number of 13 do often, information about wome	ith es concerning ne
14 articles that were posted on a website called 14 you'd agree it's important to be true	ith es concerning ne re was
affects that were posted on a website caned 14 you'd agree it's important to be tru	ith es concerning ne re was e, as you
15 nopelvicmass.com? 15 A. Yes.	es concerning ne re was ee, as you l's health,
16 A. Yes. 16 Q. Because the intended rec	es concerning ne re was ee, as you l's health,
Q. And was this one of those 17 of your writing are women who have	ith es concerning ne re was e, as you e's health, hful?
18 articles potentially? 18 have ovarian cancer, right?	ith es concerning ne re was e, as you e's health, hful? pient
19 A. Yes. Yes. 19 A. Yes.	ith es concerning ne re was e, as you e's health, hful? pient
20 Q. Okay. And as we just as I 20 (Deposition Exhibit 21 ma	ith es concerning ne re was e, as you e's health, hful? pient
just read, the article that has your picture 21 for identification.)	ith es concerning ne re was ee, as you e's health, hful? pient ve or may
22 and name on it says, "So much about ovarian 22 BY MS. BROWN:	ith es concerning ne re was ee, as you e's health, hful? pient ve or may
23 cancer is shrouded in mystery, from causes to 23 Q. I'm handing you, Doctor,	ith es concerning ne re was ee, as you e's health, hful? pient ve or may
24 early detection to effective treatments." 24 we have marked as Exhibit 21 to y	ith es concerning ne re was ee, as you es health, hful? pient ve or may

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	Page 354		Page 356
1	deposition. This is another article with	1	ovarian cancer, right?
2	your name and picture, entitled "How to find	2	A. Yes.
3	the best doctor for ovarian cancer." Do you	3	Q. And then the fourth is close
4	recall writing this article?	4	relatives with a history of breast cancer or
5	A. Not specifically, but I know I	5	ovarian cancer at any age, right?
6	did a lot of these while I was working at	6	A. Yes.
7	Vermillion.	7	Q. And then the fourth and fifth
8	Q. Okay. And just to close the	8	have to do with the Ashkenazi Jewish
9	loop, Exhibit 20, even though you don't	9	heritage, correct?
10	necessarily recall writing it, you don't	10	A. Yes.
11	dispute this is something that you did write,	11	Q. And one of the things you did
12	correct?	12	not list in December of 2015 as a risk factor
13	A. I'm not disputing that.	13	for ovarian cancer, was genital use of talcum
14	Q. Okay. And the same for	14	powder, correct?
15	Exhibit 21, you don't dispute that this	15	A. I did not use list any
16	article is something you wrote in December of	16	nonhereditary risk.
17	2015?	17	Q. And that would include talcum
18	A. That's correct.	18	powder, correct?
19	Q. Okay. And this, again, was an	19	A. Including talcum powder,
20	article aimed at folks who women who may	20	endometriosis, obesity, any hormonal
21	be concerned about ovarian cancer, correct?	21	replacement.
22	A. Yes.	22	•
23		23	Q. Sorry. Are you done? A. I'm done.
24	Q. And one of the things you did in this article was to identify risk factors	24	
24	in this article was to identify fisk factors	24	Q. And that's in part, Doctor,
	Page 355		Page 357
1	for ovarian cancer. True?	1	because in December of 2015, you had not
2	A. All listed here are familial	2	formed the opinion that genital use of talcum
3	risk factors.	3	powder causes ovarian cancer. True?
4	Q. And the title of the section	4	MS. O'DELL: Object to the
5	you have in this well, first, you say,	5	form.
6	"What are the odds," right? The odds of	6	A. That was prior to my doing any
7	getting ovarian cancer, right? And you say	7	of the review of all the literature.
8	one place to start is by considering your	8	BY MS. BROWN:
9	risk factors. True?	9	Q. Right. And so at the time of
-			Q. Right. And so at the time of
10	A. Yes.	10	· •
		10 11	these articles, that Exhibit 20 and 21, you
10	A. Yes.		· •
10 11	A. Yes.Q. All right. And then you state,	11	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder
10 11 12	A. Yes.Q. All right. And then you state,"You're more likely to be at risk of ovarian	11 12	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct?
10 11 12 13	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of	11 12 13	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am
10 11 12 13 14	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets	11 12 13 14 15	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today.
10 11 12 13 14 15	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk.	11 12 13 14	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert
10 11 12 13 14 15	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first	11 12 13 14 15 16	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf?
10 11 12 13 14 15 16 17	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk.	11 12 13 14 15 16 17 18	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No.
10 11 12 13 14 15 16 17	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first deals with a first-degree relative, right? A. Yes.	11 12 13 14 15 16 17 18 19	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No. Q. Have you reviewed any
10 11 12 13 14 15 16 17 18	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first deals with a first-degree relative, right? A. Yes. Q. The second is a prior history	11 12 13 14 15 16 17 18 19 20	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No. Q. Have you reviewed any individual plaintiff cases who are suing in
10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first deals with a first-degree relative, right? A. Yes. Q. The second is a prior history of breast cancer, correct?	11 12 13 14 15 16 17 18 19 20 21	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No. Q. Have you reviewed any individual plaintiff cases who are suing in the talcum powder litigation?
10 11 12 13 14 15 16 17 18 19 20 21 22	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first deals with a first-degree relative, right? A. Yes. Q. The second is a prior history of breast cancer, correct? A. Yes.	11 12 13 14 15 16 17 18 19 20 21 22	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No. Q. Have you reviewed any individual plaintiff cases who are suing in the talcum powder litigation? A. No.
10 11 12 13 14 15 16 17 18 19 20 21	A. Yes. Q. All right. And then you state, "You're more likely to be at risk of ovarian cancer if" and then you have a number of bullets, correct? A. Yes. And all of those bullets relate to genetic risk. Q. Exactly. And so the first deals with a first-degree relative, right? A. Yes. Q. The second is a prior history of breast cancer, correct?	11 12 13 14 15 16 17 18 19 20 21	these articles, that Exhibit 20 and 21, you did not hold the opinion that talcum powder use perineally causes ovarian cancer, correct? A. I wasn't convinced, as I am today. Q. Have you done any prior expert work, Dr. Wolf? A. No. Q. Have you reviewed any individual plaintiff cases who are suing in the talcum powder litigation?

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	Page 358		Page 360
1	related to the report that we've been	1	report and the references and write a review
2	discussing today?	2	paper and submit it for publication.
3	A. Yes.	3	Q. Have you done any work to that
4	Q. Okay. And in total, does it	4	end yet, Doctor?
5	sound about right to you, you've charged the	5	A. I haven't.
6	plaintiffs' lawyers for about 83 hours in	6	Q. Do have you have any journals
7	connection with your work?	7	in mind where you intend to submit that
8	A. That seems about right.	8	review?
9	Q. And your rate is \$600 an	9	A. I haven't decided for sure yet.
10	hour	10	The journals that I read the most and most
11	A. Yes.	11	GYN oncologists read, are the GYN Oncology,
12	Q is that correct? And how	12	the Journal of Clinical Oncology, The Gray
13	did you come up with that rate?	13	Journal, the ACOG journal, which is called
14	A. I asked I asked my friend	14	The Green Journal. So I would probably
15	Ali, what do people usually charge for this	15	choose one of those because clinicians read
16	kind of thing, and then I kind of picked a	16	them.
17	rate in what I felt like was in the	17	Q. Are you a member of ACOG?
18	middle.	18	A. I am.
19	Q. And so if I wanted to know how	19	Q. And are you a member of SGO?
20	much money the plaintiffs' lawyers have paid	20	A. I am.
21	you in total for your work in the talc	21	Q. And in forming your opinions in
22	litigation, I could multiply 600 by 83 and	22	this case, did you consider the risk factors
23	that should be about right?	23	that ACOG and SGO recognize for ovarian
24	A. That should be about right.	24	cancer?
	Page 359		Page 361
1	Q. Do you have any additional	1	A. Yes.
2	plans to do additional expert work for the	2	Q. And are you aware that in their
3	plaintiffs in the talc litigation?	3	patient-facing websites, as well as any of
4	A. I mean, completing out whatever	4	their publicly related information about
5	happens with this case.	5	ovarian cancer, neither SGO nor ACOG
6	Q. Other than what we're here	6	identifies perineal use of talcum powder as a
7	about today, right?	7	risk factor for ovarian cancer?
8	A. That's that's all I have	8	A. I am aware of that.
9	planned.	9	Q. And do you believe that the
10	Q. Do you have a website in	10	doctors and the scientists at SGO and ACOG
11	connection with your current practice?	11	simply have not reviewed all of the data
12	A. I do.	12	regarding perineal use of talcum powder and
13	Q. And do you indicate on your	13	ovarian cancer?
14	website that talcum powder causes ovarian	14	A. It's my understanding that most
15	cancer?	15	of the GYN oncologists probably have not
16	A. I don't believe I talk about	16	reviewed the literature to the extent of
17	any risk specific risk factors for ovarian	17	which I have reviewed it. And given that the
18	cancer. That website is to introduce	18	volume of literature has increased recently,
19	patients to who I am and how I like to	19	it takes time for societies like SGO and ACOG
20	practice.	20	to come up with an opinion. It has to go
21	Q. Do you have any plans to	21	through a committee and various steps to come
22	publicize your belief that talcum powder	22	out. I don't think this is something that's
23	causes ovarian cancer?	23	risen to their attention enough. That's part
24	A. I actually do plan to take my	24	of the reason that I want to write a paper

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	Page 362		Page 364
1	about it, to help inform my colleagues.	1	BY MS. BROWN:
2	Q. Have you contacted anyone at	2	Q. Okay. And it sounds like you
3	ACOG or SGO and told them that you think they	3	nonetheless, have raised the issue with some
4	need to update their website and list that	4	folks at the coalition, correct?
5	talcum powder causes ovarian cancer?	5	A. Yes.
6	A. I haven't yet.	6	Q. And it sounds like they don't
7	Q. Do you intend to do that?	7	agree with your assessment, correct?
8	A. I intend to write a letter to	8	MS. O'DELL: Object to the
9	SGO with my concerns, asking them to review	9	form.
10	it. I think that's the first step, is they	10	A. The last time I raised it,
11	have to review the literature on their own.	11	which was in the spring, at the meeting that
12	Q. And you have been doing this	12	is in conjunction with the Society of GYN
13	talcum powder work for the plaintiffs'	13	Oncology, they didn't want to address it,
14	lawyers for a little over a year now; is that	14	they didn't want to take it on as something
15	right?	15	to review.
16	A. Yes.	16	BY MS. BROWN:
17	Q. And during that time period,	17	Q. But do you think, generally,
18	you haven't contacted any of your	18	the doctors and the scientists at
19	professional organizations to inform them of	19	organizations like ACOG and SGO and the
20	your view that talc causes ovarian cancer?	20	National Ovarian Cancer Coalition are working
21	•	21	very hard to protect women's health issues?
22	MS. O'DELL: Object to the	22	MS. O'DELL: Object to the
23	form.	23	form.
24	A. I have talked to individual colleagues who practice GYN oncology, and I	24	A. I think that all of those
21	concagues who practice of the oneology, and t		The Tuning that an of those
	Page 363		Page 365
1	have talked to the National Ovarian Cancer	1	societies and many other advocacy groups are
2	Coalition Medical Advisory Board, of which	2	doing what they think is best to protect
3	I'm on the board. I used to be on the	3	women's health.
4	advisory board. And at the time that I	4	BY MS. BROWN:
5	raised it, there wasn't a lot of interest in	5	Q. Have you considered the
6	pursuing it.	6	possibility that these folks at ACOG, at SGO,
7	BY MS. BROWN:	7	at NCI, at FDA, at IARC have reviewed the
8	Q. And so one of the organizations	8	same data that you have and come to a
9	you referenced and to your credit have done a	9	different conclusion?
10	lot of work with, is the National Ovarian	10	MS. O'DELL: Object to the
11	Cancer Coalition, right?	11	form.
12	A. Yes.	12	A. I don't have all of the
13	Q. And as you well know, as	13	information about what they've reviewed or
14	someone who's been very active in that	14	not reviewed. And some of those, I know that
15	organization, they too have a statement on	15	they didn't have all of the data and some of
16	talcum powder, right?	16	them, like the National Ovarian Cancer
17	A. Yes.	17	Coalition, I know they haven't reviewed the
18	Q. And the National Ovarian Cancer	18	data. I don't know that SGO has done that at
19	Coalition does not believe that the evidence	19	any time recently. If you go to their
20	supports that talcum powder causes ovarian	20	website, they refer you to ACOG. So I can't
	cancer, right?	21	make that statement.
21	MS_O'DELL: Object to form	2.2	BY MS BROWN:
21 22	MS. O'DELL: Object to form. A That's what their statement	22	BY MS. BROWN: O You don't have those sitting
21	MS. O'DELL: Object to form. A. That's what their statement says.	22 23 24	Q. You don't have those sitting here as someone who's been active in the

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don't have any reason to believe that the foll for almost 30 years, you don't have any reason to believe that the foll foll for almost 30 years, you don't have any reason to believe that the foll foll foll foll foll foll foll foll		Page 366		Page 368
don't have any reason to believe that the 3 folks at ACOG, SGO, FDA, NCI, CDC have not 4 kept up-to-date with the tale and ovarian 5 cancer epidemiology? 6 MS, OTPELL: Object to the 7 form, misstates her testimony, assumes 8 things not in the record. 9 A. My assumption is that some 10 people in all of those have probably read 11 some of the data. The not sure who, if 12 anyone, in any of those has looked at all of 13 the evidence in the way that 1 have done. 14 BY MS, BROWN: 15 Q. And the way that you've looked 16 at the evidence is by using sort of your 17 interpretation of Bradford Hill; is that 18 right? 19 MS, OTPELL: Object to the 10 form. 20 And the data that I reviewed. 21 A. I would say evidence-based 22 medicine and then using the tenets of 23 Bradford Hill to explain how I interpreted 24 the data that I reviewed. 25 BY MS, BROWN: 26 MS, OTPELL: Object to the 27 form. 28 A. Not less reliance on dose response, right? 29 G. And you say in your report that 20 determining what the dosage is makes it hard 21 to determining what the dosage is makes it hard 22 to determining what the dosage is makes it hard 23 to determining what the dosage is makes it hard 24 to determine the dose response. 25 BY MS, BROWN: 26 MS, OTPELL: Object to the 27 form. 28 A. Not less reliance on dose response, right? 3 Q. And you say in your report on 3 Q. And you say in your report on 4 MS, OTPELL: Object to the 4 form. 4 MS, OTPELL: Object to the 5 dorn. 5 MS, OTPELL: Object to the 6 form. 6 MS, OTPELL: Object to the 6 form. 7 Page 369 8 MS, OTPELL: Object to the 8 MS, OTPELL: Object to the 9 response, just that in this particular case, 9 response, just that in this particular case, 10 determining what the dosage is makes it hard 11 to determine the dose response. 12 MS, OTPELL: Object to the 13 MS, OTPELL: Object to the 14 MS, OTPELL: Object to the 15 missing and the data that Previoue of the tensons — do 16 make the dosage is makes it hard 17 to determine the dose response. 18 MS, OTPEL: Object to the 19 make the dosage is makes	1	women's health field for almost 30 years, you	1	A. Because there's limitations in
4 kept up-to-date with the tale and ovarian 5 cancer epidemiology? 6 MS. O'DELL: Object to the 7 form, misstates her testimony, assumes 8 things not in the record. 9 A. My assumption is that some 10 people in all of those have probably read 11 some of the data. The not sure who, if 12 anyone, in any of those has looked at all of 13 the evidence in the way that I have done. 14 BY MS. BROWN: 15 Q. And the way that you've looked 16 at the evidence in the value of the data. The everall — looking at the 17 interpretation of Bradford Hill; is that 18 right? 19 MS. O'DELL: Object to the 19 form. 20 form. 21 A. I would say evidence-based 22 medicine and then using the tenets of 23 Bradford Hill employs a methodology that has 24 the data that I reviewed. Page 367 BY MS. BROWN: 2 Q. I'm sorry to interrupt. And 3 your methodology, though, as it relates to 24 Bradford Hill, employs a methodology that has 3 less reliance on dose response, right? 4 MS. O'DELL: Object to the 5 form. 2 Q. And you say in your report that 1 to determine the dose response. 2 BY MS. BROWN: 3 Q. And you say in your report that 1 you consider that a less important factor, 2 page 15, I think we talked about this 2 carlier, "Given the limitations of the data, 2 compared to strength of association, 2 compared to strength of association, 3 correct of the data, 4 that it such evidence is with at in the dost artio. 4 the data, what is the relative risk associated with tale cumpowder use and ovarian cancer? 4 MS. O'DELL: Object to the 4 to determine the dose response. 4 Page 367 Page 367 Page 367 Page 367 Page 367 Page 367 Page 369 A. I and I alicumpower postmenopausal hormone replacement therapy, and I believe that a reprety close to 1? Have you looked into that? 4 MS. O'DELL: Object to the 5 form. 5 MS. O'DELL: Object to the 6 form. 6 MS. O'DELL: Object to the 6 form. 7 review of the epi, the FDA's concern that the studies that have found small positive association intervals might be close to 1 sometimes. However, if it doesn't cross 1, if's sta	2		2	the data that we'll never know the answer to.
4 kept up-to-date with the tale and ovarian 5 cancer epidemiology? 6 MS. O'DELL: Object to the 7 form, misstates her testimony, assumes 8 things not in the record. 9 A. My assumption is that some 10 people in all of those have probably read 11 some of the data. The not sure who, if 12 anyone, in any of those has looked at all of 13 the evidence in the way that I have done. 14 BY MS. BROWN: 15 Q. And the way that you've looked 16 at the evidence in the value of the data. The everall — looking at the 17 interpretation of Bradford Hill; is that 18 right? 19 MS. O'DELL: Object to the 19 form. 20 form. 21 A. I would say evidence-based 22 medicine and then using the tenets of 23 Bradford Hill employs a methodology that has 24 the data that I reviewed. Page 367 BY MS. BROWN: 2 Q. I'm sorry to interrupt. And 3 your methodology, though, as it relates to 24 Bradford Hill, employs a methodology that has 3 less reliance on dose response, right? 4 MS. O'DELL: Object to the 5 form. 2 Q. And you say in your report that 1 to determine the dose response. 2 BY MS. BROWN: 3 Q. And you say in your report that 1 you consider that a less important factor, 2 page 15, I think we talked about this 2 carlier, "Given the limitations of the data, 2 compared to strength of association, 2 compared to strength of association, 3 correct of the data, 4 that it such evidence is with at in the dost artio. 4 the data, what is the relative risk associated with tale cumpowder use and ovarian cancer? 4 MS. O'DELL: Object to the 4 to determine the dose response. 4 Page 367 Page 367 Page 367 Page 367 Page 367 Page 367 Page 369 A. I and I alicumpower postmenopausal hormone replacement therapy, and I believe that a reprety close to 1? Have you looked into that? 4 MS. O'DELL: Object to the 5 form. 5 MS. O'DELL: Object to the 6 form. 6 MS. O'DELL: Object to the 6 form. 7 review of the epi, the FDA's concern that the studies that have found small positive association intervals might be close to 1 sometimes. However, if it doesn't cross 1, if's sta	3	· · · · · · · · · · · · · · · · · · ·	3	Q. And as it relates to strength
5 data, what is the relative risk associated with talcum powder use and ovarian cancer? 6 MS. O'D'ELL: Object to the form, misstates her testimony, assumes things not in the record. 8 A. My assumption is that some people in all of those have probably read some of the data. I'm not sure who, if anyone, in any of those has looked at all of the evidence in the way that I have done. 11 anyone, in any of those has looked at all of the evidence in the way that I have done. 12 anyone, in any of those has looked at all of the evidence in the way that I have done. 13 the evidence in the way that I have done. 14 BY MS. BROWN: 15 Q. And the way that you've looked at the evidence is by using sort of your interpretation of Bradford Hill; is that ingh? 16 miterpretation of Bradford Hill; is that ingh? 17 miterpretation of Bradford Hill; is that ingh? 18 mgh? 19 MS. O'D'ELL: Object to the form. 20 form. 21 A. I would say evidence-based medicine and then using the tenets of detail the data that I reviewed. 22 medicine and then using the tenets of detail the data that I reviewed. 23 Bradford Hill capilan how I interpreted the data that I reviewed. 24 The overall - looking at the studies as a whole, I.3 to I.4 odds ratio. 25 BY MS. BROWN: 26 Q. Form. 27 A. I consider it to be a strong association. It doesn't have to be a high number, and Bradford Hill explain how I interpreted the data that I reviewed. 25 BY MS. BROWN: 26 Q. The sorty to interrupt. And your methodology that has less reliance on dose response, right? 27 MS. O'D'ELL: Object to the form. 28 PAS BROWN: 29 AN do you considered in your review of the epi, the FDA's concern that the studies that have found small positive are response, just that in this particular case, determining what the dosage is makes it hard to determine the dose response. 29 BY MS. BROWN: 20 And you say in your report that you considered in your review of the epi, the FDA's concern that the studies that have found small positive are reports. A so when the odds ratio's 1.3	4		4	
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some of the data. I'm not sure who, if 22 anyone, in any of those has looked at all of 33 the evidence in the way that I have done. 14 BY MS. BROWN: 15 Q. And the way that I have done. 16 at the evidence is by using sort of your 16 at the evidence of by using sort of your 16 at the evidence is by using sort of your 16 at the evidence is by using sort of your 16 at the evidence is by using sort of your 17 interpretation of Bradford Hill; is that 18 right? 19 MS. O'DELL: Object to the 20 form. 21 A. I would say evidence-based 21 A. I would say evidence-based 22 medicine and then using the tents of 23 Bradford Hill to explain how I interpreted 24 the data that I reviewed. Page 367 Page 367 Page 367 Page 369 Page 369 Page 369 Page 369 A. 1.3 and 1.4 is not 10, but 1.2 was the risk of hormone — postmenopausal hormone replacement therapy, and I believe that's a real risk also. BY MS. BROWN: A. Not less reliance on dose response, right? MS. O'DELL: Object to the 6 form. A. Not less reliance on dose response. BY MS. BROWN: A. Not less reliance on dose 9 response, just that in this particular case, 10 determining what the dosage is makes it hard 11 to determine the dose response. BY MS. BROWN: BY MS. BROWN: BY MS. BROWN: A. 1.3 and 1.4 is not 10, but 1.2 was the risk of hormone — postmenopausal hormone replacement therapy, and I believe that's a real risk also. BY MS. BROWN: MS. O'DELL: Object to the form. A. Not less reliance on dose 9 response, just that in this particular case, 10 determining what the dosage is makes it hard 11 to determine the dose response. BY MS. BROWN: BY MS. BROWN: BY MS. BROWN: A. So when the odds ratio's 1.3, your confident intervals might be close to 1 sometimes. However, if it doesn't cross 1, it's statistically significant. A. So when the odds ratio's 1.3, your confidence interval is getting close to 1 you understand why the FDA is concerned if the confidence interval is getting close to 1 compared to strength of association, 22 A. That it might be by rando	9	A. My assumption is that some	9	A. The overall looking at the
anyone, in any of those has looked at all of the evidence in the way that I have done. BY MS. BROWN: Q. And the way that you've looked at the evidence is by using sort of your interpretation of Bradford Hill; is that right? MS. O'DELL: Object to the form. A. I consider it to be a consistent, reliable association. It doesn't have to be a high number, and Bradford Hill explains that in FedEx paper, that it's the consistent association and finding that association association. It doesn't have — it's not number dependent. Q. You'd agree that 1.3 and 1.4 is not a high relative risk? MS. O'DELL: Object to the form. Page 367 Page 369	10	people in all of those have probably read	10	studies as a whole, 1.3 to 1.4 odds ratio.
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14 BY MS. BROWN: Q. And the way that you've looked 15 quarter evidence is by using sort of your 16 at the evidence is by using sort of your 17 interpretation of Bradford Hill; is that 18 right? 19 MS. O'DELL: Object to the 19 form. 20 form. 21 A. I would say evidence-based 22 medicine and then using the tenets of 23 Bradford Hill to explain how I interpreted 24 the data that I reviewed. Page 367 1 BY MS. BROWN: 2 Q. I'm sorry to interrupt. And 3 your methodology, though, as it relates to 4 Bradford Hill, employs a methodology that has 1 less reliance on dose response, ight? 4 MS. O'DELL: Object to the 5 form. 8 A. Not less reliance on dose 9 response, just that in this particular case, 9 response, just that in this particular case, 10 determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 11 to determining what the dosage is makes it hard 12 Q. And you say in your report that 13 you consider that a less important factor, 14 right? 15 right? 16 MS. O'DELL: Object to the 16 form. 17 form. 18 BY MS. BROWN: 19 Q. And so that's your report on 20 page 15, I think we talked about this 21 compared to strength of association, 21 A. I consider it to be a ligh much as consistent, and finding that 22 consistent in FedEx paper, that it's the consistent in FedEx paper, that it's the consistent and finding that association in the dosan't association association in I doesn't have — it's not 10, our mumber dependent. 22 was the risk of hormone replacement the rapy, and 1 A. I. 3 and 1.4 is not 10, but 1.2 2 was the risk of hormone — postmenopausal hormone replacement therapy, and I believe that's a real risk also. BY MS. BROWN: 10 Q. Have you considered in your review of the epi, the FDA's concern that the studies that have found small positive associations have lower confidence li	12	anyone, in any of those has looked at all of	12	Q. And do you consider that to be
15 Q. And the way that you've looked at the evidence is by using sort of your interpretation of Bradford Hill; is that right? 18 right? 19 MS. O'DELL: Object to the form. 20 form. 21 A. I would say evidence-based medicine and then using the tenets of the data that I reviewed. 22 medicine and then using the tenets of the data that I reviewed. 23 Bradford Hill to explain how I interpreted the data that I reviewed. 24 the data that I reviewed. 25 Page 367 1 BY MS. BROWN: 2 Q. I'm sorry to interrupt. And your methodology, though, as it relates to Bradford Hill, employs a methodology that has be less reliance on dose response, right? 2 MS. O'DELL: Object to the form. 2 Page 369 1 BY MS. BROWN: 2 Q. I'm sorry to interrupt. And you from the dosage is makes it hard to determining what the dosage is makes it hard to determining what the dosage is makes it hard to determining what the dosage is makes it hard you consider that a less important factor, right? 2 MS. O'DELL: Object to the form. 2 Page 369 2 Page 369 2 Page 369 2 And you say in your report that you consider that a less important factor, right? 3 Q. And you say in your report on page 15, 1 think we talked about this earlier, "Given the limitations of the data, 21 consider this to be a less important factor compared to strength of association, 1t doesn't have consistent association. It doesn't have explains that it's not number dependent. 2 Q. You'd agree that 1.3 and 1.4 is not 10, but 1.2 Was the risk of hormone — postmenopausal hormone replacement therapy, and I believe that's a real risk also. BY MS. BROWN: 3 BY MS. BROWN: 4 BY MS. BROWN: 5 BY MS. BROWN: 6 MS. O'DELL: Object to the form. 7 Form. 8 A. Not less reliance on dose 9 response, just that in this particular case, determining what the dosage is makes it hard to determine the dose response. 10 MS. O'DELL: Object to the form. 11 MS. O'DELL: Object to the form. 12 MS. O'DELL: Object to the form. 13 Q. And you say in your report on 19 Q. And one of the reasons — do you	13	the evidence in the way that I have done.	13	a strong association?
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MS. O'DELL: Object to the form. 19	17	interpretation of Bradford Hill; is that	17	explains that in FedEx paper, that it's the
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12 BY MS. BROWN: 13 Q. And you say in your report that 14 you consider that a less important factor, 15 right? 16 MS. O'DELL: Object to the 16 So when the odds ratio's 1.3, 17 form. 18 BY MS. BROWN: 19 Q. And so that's your report on 20 page 15, I think we talked about this 21 earlier, "Given the limitations of the data, 22 I consider this to be a less important factor 23 compared to strength of association, 12 MS. O'DELL: Object to the 13 form. 14 A. So when the odds ratio's 1.3, 15 your confident intervals might be close to 1 16 sometimes. However, if it doesn't cross 1, 17 it's statistically significant. 18 BY MS. BROWN: 19 Q. And one of the reasons do 20 you understand why the FDA is concerned if 21 the confidence interval is getting close to 22 1? 23 compared to strength of association, 24 A. That it might be by random		e e		
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22 I consider this to be a less important factor 22 1? 23 compared to strength of association, 23 A. That it might be by random	19	Q. And so that's your report on		
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	19 20 21	Q. And so that's your report on page 15, I think we talked about this earlier, "Given the limitations of the data,	20 21	you understand why the FDA is concerned if the confidence interval is getting close to
24 chance, yes.	19 20 21 22	Q. And so that's your report on page 15, I think we talked about this earlier, "Given the limitations of the data, I consider this to be a less important factor	20 21 22	you understand why the FDA is concerned if the confidence interval is getting close to 1?
	19 20 21 22 23	Q. And so that's your report on page 15, I think we talked about this earlier, "Given the limitations of the data, I consider this to be a less important factor compared to strength of association,	20 21 22 23	you understand why the FDA is concerned if the confidence interval is getting close to 1? A. That it might be by random

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	Page 370		Page 372
1	Q. And do you share that concern	1	for me everything, other than talc, that you
2	as you evaluate the confidence intervals	2	believe is in Johnson & Johnson baby powder
3	here?	3	and causes ovarian cancer.
4	A. If I didn't see such a	4	MS. O'DELL: Object to the
5	consistent average of 1.3 to 1.4, I would be	5	form.
6	more concerned about it. As a whole, I'm not	6	A. What I believe is in talcum
7	concerned about it when I look at all of the	7	powder product and that can be cause
8	evidence.	8	inflammation and/or be carcinogenic is platy
9	Q. And when you say "consistent,"	9	talc, fibrous talc, asbestos, heavy metals,
10	you're referring within the population	10	including nickel, chromium and cobalt, and
11	case-control studies, right?	11	fragrance products that can be irritating and
12	MS. O'DELL: Object to the	12	inflammatory.
13	form.	13	BY MS. BROWN:
14	A. Yes.	14	Q. And you have not formed an
15	BY MS. BROWN:	15	opinion in connection with your analysis, as
16	Q. Because if you look at the	16	to how much each of the items that you just
17	prospective cohorts, there's not consistency	17	listed make up baby powder, right?
18	in the case controls, right?	18	MS. O'DELL: Of a particular
19	A. When you look at the	19	bottle, over time or
20	meta-analyses, everything as a whole, yes,	20	MS. BROWN: Any
21	1.3 to 1.4.	21	MS. O'DELL: what's the
22	Q. Okay. If you bear with me for	22	context of the question?
23	just one minute, Dr. Wolf, I want to just	23	MS. BROWN: At all.
24	make sure I'm not forgetting anything and	24	
	Page 371		Page 373
1	then I'm going to turn the questioning over	1	BY MS. BROWN:
2	to some of may collegeness		BT MS. BRO WIV.
	to some of my colleagues.	2	Q. I mean, have you attempted to
3	When you say on page 8, "The	2	
3 4			Q. I mean, have you attempted to
	When you say on page 8, "The	3	Q. I mean, have you attempted to quantify how much heavy metal is in baby
4	When you say on page 8, "The risk elevation is 20-60 percent," do you	3 4	Q. I mean, have you attempted to quantify how much heavy metal is in baby powder?
4 5	When you say on page 8, "The risk elevation is 20-60 percent," do you think it's more like 30 to 40?	3 4 5	Q. I mean, have you attempted to quantify how much heavy metal is in baby powder?A. I haven't attempted to quantify
4 5 6	When you say on page 8, "The risk elevation is 20-60 percent," do you think it's more like 30 to 40? A. I think if you look at all the	3 4 5 6	 Q. I mean, have you attempted to quantify how much heavy metal is in baby powder? A. I haven't attempted to quantify it. The fact that there's any heavy metal in
4 5 6 7	When you say on page 8, "The risk elevation is 20-60 percent," do you think it's more like 30 to 40? A. I think if you look at all the papers, some of them are 20 and some of them	3 4 5 6 7	Q. I mean, have you attempted to quantify how much heavy metal is in baby powder? A. I haven't attempted to quantify it. The fact that there's any heavy metal in there that's carcinogenic is of concern.
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	Page 374		Page 376
1	products?	1	MS. O'DELL: Object to the
2	A. No.	2	form.
3	Q. And as to asbestos, we reviewed	3	A. I didn't say these cause
4	your reliance materials before. You're	4	ovarian cancer. I say that they're known to
5	relying on the articles you pointed me to,	5	be carcinogenic and could be the cause of why
6	Hopkins Exhibit 28, Blount's testimony and	6	talcum powder products causes ovarian cancer.
7	her '91 article and Longo's reports, to	7	And the other thing in there that I know can
8	support your opinion that talcum powder	8	be inflammatory, from reading Dr. Crowley's
9	contains asbestos, correct?	9	report, are some of the fragrances that are
10	A. And also the deposition of	10	used. And since inflammation is a risk
11	Julie Pier.	11	factor and an initiator in leads is
12	Q. And again, as it relates to	12	related to the progression of ovarian cancer,
13	asbestos, you haven't made a determination as	13	I have concerns about those.
14	to how much asbestos is contaminating talcum	14	BY MS. BROWN:
15	powder, right?	15	Q. And your opinion, then, Doctor,
16	MS. O'DELL: Object to the	16	as I understand it, is that you're not sure
17	form.	17	which or what combination of all the items
18	A. I've made a determination that	18	you just listed to me are working to cause
19	these testings show evidence of asbestos in a	19	cancer; is that right?
20	significant amount of talcum powder that was	20	MS. O'DELL: Object do the
21	tested.	21	form.
22	BY MS. BROWN:	22	A. My opinion is that it's the
23	Q. Okay. But in terms of how much	23	talcum powder product as a whole that
24	asbestos is in an individual bottle, you	24	increases the risk of ovarian cancer, and
	Page 375		Page 377
1	haven't attempted to quantify that, right?	1	I've listed things that I know are in there
2	A. I haven't and it wouldn't	2	that can be carcinogenic or inflammatory.
3	change my opinion.	3	BY MS. BROWN:
4	Q. Okay. As it relates to fibrous	4	Q. And to be clear, though, you
5	tale, what are you relying on for your	5	don't have an opinion as to the amounts of
6	opinion that fibrous talc is contained in	6	any of the items you just listed for me as
7	Johnson & Johnson baby powder products?	7	they appear in baby powder, right?
8	A. I don't have it referenced	8	MS. O'DELL: Object to the
9	here, but my understanding is that it's hard	9	object to the form.
10	to get pure platy talc and it's always	10	BY MS. BROWN:
11	contaminated with some fibrous talc and I	11	Q. That was a bad question.
12	can't tell you where I've seen it, but I've	12	Here's what I want to know. I understand
13	seen it reports as small as 2 percent, as	13	your opinion is based on your assumption that
14	high as 20 percent.	14	fragrance, platy talc, fibrous talc, heavy
15	Q. And sitting here today, you're	15	metals and asbestos are in Johnson &
16	not sure of the site for that 2 to 20 percent	16	Johnson's products, correct?
17	fibrous talc?	17	MS. O'DELL: Object to the
18	A. I'm not. No.	18	form.
19	Q. Other than platy tale, 2 to 20	19	A. It's in talcum powder product.
20	percent fibrous talc, some amount of heavy	20	BY MS. BROWN:
21	metals and some amount of asbestos, is there	21	Q. And that would include Johnson
		1 22	& Johnson's products, correct?
22	anything else you believe is in Johnson &	22	& Johnson's products, correct:
22 23	Johnson baby powder products that causes	23	A. Would include any talcum powder
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	Page 378		Page 380
1	Q. Are you of the opinion that	1	there's evidence of asbestos at least.
2	we need to change the tape. Sorry.	2	Q. And that's the Longo testing
3	THE VIDEOGRAPHER: Going off	3	you referred to earlier?
4	the record. The time is 4:40 p m.	4	A. Yes.
5	(Recess taken from 4:40 p.m. to	5	Q. Okay. Final question final
6	4:52 p.m.)	6	area of questioning, Dr. Wolf, would be
7	THE VIDEOGRAPHER: This marks	7	page 20 of your report. To be clear, you
8	the beginning of disk 4. Back on the	8	believe that the mechanism by which talcum
9	record. The time is 4:52 p.m.	9	powder causes cancer is chronic inflammation;
10	BY MS. BROWN:	10	is that right?
11	Q. Dr. Wolf, before we took a	11	A. This is a reference page. Are
12	break, we were discussing your opinion that	12	you looking at a different page?
13	J&J's talcum powder products contain	13	Q. Page 12 of your report?
14	fragrances, platy talc, fibrous talc, heavy	14	MS. O'DELL: You said 20.
15	metals and asbestos. Do you recall that?	15	A. You said 20.
16	A. I do.	16	BY MS. BROWN:
17	Q. And my question for you,	17	Q. Sorry. Tired.
18	Doctor, is it your opinion that J&J's talcum	18	A. I know. I understand. I
19	powder products contained all of those things	19	believe it's inflammation that leads to
20	at all periods of time?	20	oxidative stress that then causes DNA damage,
21	A. Well, what I know for sure and	21	and I believe with Saed's most recent papers,
22	what testing that I've seen shows, that	22	that it actually induces gene mutations that
23	evidence of asbestos, heavy metals from the	23	change ovarian epithelial cells and culture.
24	'70s through the '90s and testing looking for	24	Q. Do you rely on anyone else,
	Page 379		Page 381
1	fibrous tale at that same time actually		
		1	other than Dr. Saed, for your opinion that
2		1 2	other than Dr. Saed, for your opinion that talcum powder is do you believe that talc
2	Longo tested for fibrous talc too and found		talcum powder is do you believe that talc
	Longo tested for fibrous talc too and found it in 41 of 42 specimens. I don't know about	2	talcum powder is do you believe that talc is genotoxic?
3	Longo tested for fibrous talc too and found	2 3	talcum powder is do you believe that talc is genotoxic? A. I believe that Dr. Saed's paper
3 4	Longo tested for fibrous talc too and found it in 41 of 42 specimens. I don't know about the fragrance because I don't know how long this particular fragrance formulation has	2 3 4	talcum powder is do you believe that talc is genotoxic? A. I believe that Dr. Saed's paper that he found gene point gene mutations
3 4 5	Longo tested for fibrous talc too and found it in 41 of 42 specimens. I don't know about the fragrance because I don't know how long	2 3 4 5	talcum powder is do you believe that talc is genotoxic? A. I believe that Dr. Saed's paper that he found gene point gene mutations after application of talc talcum powder.
3 4 5 6	Longo tested for fibrous talc too and found it in 41 of 42 specimens. I don't know about the fragrance because I don't know how long this particular fragrance formulation has been used, if it's been how long it's been	2 3 4 5 6	talcum powder is do you believe that talc is genotoxic? A. I believe that Dr. Saed's paper that he found gene point gene mutations after application of talc talcum powder. Q. Do you believe that talcum
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	Page 382		Page 384
1	evidence of gene point gene mutations that	1	BY MS. BROWN:
2	change the oxidative state of the cell to a	2	Q. And finally, Doctor, you
3	prone inflammatory state.	3	reference on page 12, in support of your
4	BY MS. BROWN:	4	opinion page 12 of your report in support
5	Q. And other than Dr. Saed's work,	5	of your opinion, that talcum powder causes
6	are you relying on any other published	6	inflammation and oxidative stress in vitro
7	literature to support your belief that talc	7	and in vivo. You reference the NTP study; is
8	is genotoxic?	8	that right?
9	MS. O'DELL: Object to the	9	A. Yes.
10	form.	10	Q. Have you reviewed the FDA's
11	A. Dr. Saed's work, as per my	11	analysis of that NTP study?
12	review, is the most convincing data that I've	12	A. I'm aware that they had some
13	seen of genetic changes, separate from	13	concerns about the analysis.
14	inflammatory changes, when talc was exposed	14	Q. Do you share the concerns and
15	to both ovarian epithelial cells, ovarian	15	the first of all, you understand the FDA
16	cancer cell lines and fallopian tube	16	concluded that the paper had serious flaws,
17	epithelial cell lines.	17	right?
18	BY MS. BROWN:	18	MS. O'DELL: Object to the
19	Q. And one of the papers you cited	19	form.
20	for us in your early footnotes, lists sort of	20	A. I understand that the FDA had
21	a weight of the hierarchy of evidence. Do	21	concerns about the paper.
22	you recall that paper?	22	BY MS. BROWN:
23	MS. O'DELL: Object to the	23	Q. Do you share those concerns?
24	form.	24	A. I think that the NTP toxicology
	Page 383		Page 385
1	BY MS. BROWN:	1	studies of talc is one of the pieces of
2	Q. You had a footnote 4 and 5,	2	evidence that I believe supports that
3	some cites that dealt with sort of he weight	3	inflammation occurs after talcum powder
4	of the evidence, generally. Do you remember	4	application and can cause be a
5	those?	5	carcinogenic mechanism of carcinogenesis.
6	A. I just want to see what they	6	Q. Do you agree with the
7	are, 4 and 5.	7	conclusion of the 1994 FDA workshop, that the
8	Q. Footnote 4 and 5.	8	NTP study has no relevance to human risk?
9	A. These are talking about the	9	MS. O'DELL: Object to the
10	difference between cohort studies and	10	form.
11	meta-analysis?	11	A. I believe that the NTP study
12	Q. Right. And they contained a	12	helps as an informative, along with all of
13	chart with a hierarchy of evidence. Do you	13	the other studies listed there, that talcum
14	recall reviewing that?	14	powder causes inflammation and oxidative
15	A. Yes.	15	stress in ovarian cells and in cells in
	Q. And you would agree that expert	16	general and that this can be carcinogenic.
16		17	It's a piece of the evidence, not the whole
17	witness opinions are the very lowest rung of	1	
	that chart?	18	evidence.
17	that chart? MS. O'DELL: Object to the	1	BY MS. BROWN:
17 18	that chart? MS. O'DELL: Object to the form.	18	BY MS. BROWN: Q. Finally, Doctor, before I turn
17 18 19 20 21	that chart? MS. O'DELL: Object to the	18 19	BY MS. BROWN: Q. Finally, Doctor, before I turn the questioning over to my colleague, you
17 18 19 20	that chart? MS. O'DELL: Object to the form.	18 19 20	BY MS. BROWN: Q. Finally, Doctor, before I turn
17 18 19 20 21	that chart? MS. O'DELL: Object to the form. A. I've referenced those charts in	18 19 20 21	BY MS. BROWN: Q. Finally, Doctor, before I turn the questioning over to my colleague, you

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Case 3:16-md-02738-MAS-RLS Document 9896-1 Filed 05/30/19 Page 99 of 183 PageID: 73121 Judith K. Wolf, M.D.

	Page 386		Page 388
1	A. Yes.	1	think you can make the step to say that it's
2	Q. Do you have plans to disclose	2	because their vagina was stretched out more.
3	your work as an expert witness when you	3	MS. BROWN: Thanks for your
4	author that publication?	4	time today, Dr. Wolf. I'm going to
5	A. Of course I would.	5	hand it over to my colleague.
6	Q. Would you plan to disclose the	6	Can we go off for a second?
7	amount of money that you've made working for	7	MR. KLATT: Yeah, let's do
8	plaintiffs' lawyers in connection with that	8	that.
9	litigation paper?	9	THE VIDEOGRAPHER: Going off
10	MS. O'DELL: Object to the	10	the record. The time is 5:02 p.m.
11	form.	11	(Recess taken from 5:02 p.m. to
12	A. As I've never written a	12	5:06 p.m.)
13	paper as I've never been an expert witness	13	THE VIDEOGRAPHER: Back on the
14	before, I don't know what you need to	14	record. The time is 5:06 p m.
15	disclose as far as that. I know that if you	15	EXAMINATION
16	have grant or funding for anything, you	16	BY MR. KLATT:
17	disclose the amount and who it's from. I'm	17	Q. Good afternoon, Dr. Wolf.
18	assuming it would be the same for this, but I	18	A. Good afternoon.
19	don't know. I would check with the journal	19	Q. My name is Mike Klatt and I
20	and see what was required and do whatever was	20	represent Imerys Talc America in this case.
21	appropriate.	21	You said earlier that you were aware that
22	BY MS. BROWN:	22	Imerys is a mining company, correct?
23	Q. And finally, Doctor, do you	23	A. That's correct.
24	know of any scientific support for the	24	Q. I'm going to skip around,
24	know of any scientific support for the		Q. Thi going to skip around,
	Page 387		Page 389
1	opinions that women who have had children	1	because I've just been following what's been
2	have a stretched-out vaginal tract such that	2	going on today and I just have a lot of
3	migration is more likely?	3	questions in different areas. So there's
4	MS. O'DELL: Object to the	4	probably not going to be necessarily a
5	form.	5	logical progression. So if you'll just bear
6	A. I wouldn't put I would never	6	with me, I'd appreciate it.
7	say that women who have had children have a	7	A. Okay.
8	stretched-out vaginal tract. All women have	8	Q. A minute ago, I believe that
9	an open vaginal tract. Women who have had	9	Ms. Brown asked you, that if you end up
10	multiple vaginal deliveries may or may not	10	writing a letter or a review article to any
11	have a larger opening to their vagina than	11	organization about talc and ovarian cancer,
12	women who do not.	12	you think it's important to disclose that
13	BY MS. BROWN:	13	you've been an expert in litigation regarding
14	Q. You haven't seen any data to	14	talc and ovarian cancer, correct?
15	suggest that having more kids increases your	15	A. Yes.
16	risk of ovarian cancer because more	16	Q. Do you think it's important
17	carcinogens can migrate to your ovaries,	17	that you specifically disclose that you've
18	right?	18	been a retained, paid witness for plaintiffs
19	MS. O'DELL: Object to the	19	in talc ovarian cancer in making that
20	form.	20	disclosure?
21	A. So that seems like a multistep	21	A. Again, I've never been an
22	question. I do believe that at least one of	22	expert witness before. I don't know what the
	-	1	÷
23	the case-control studies looked at parity as	23	rules of what I have to disclose, so that
23 24	the case-control studies looked at parity as a possible risk factor. Personally, I don't	23 24	rules of what I have to disclose, so that anyone who reads my article can read it with

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2 said I needed to disclose, I would disclose. 3 Q. But don't you think it's 4 important for your readers to know which side 5 you're involved in in this litigation? 5 addressed. 6 MS. O'DELL: Object to the 7 form. 7 TH 8 A. I don't know if that's 9 something that is routinely done. If it is, 9 something that is routinely done. If it is, 10 I definitely would do that. 11 BY MR. KLATT: 12 Q. But I'm asking if you, 13 personally, think that's an important fact to 14 disclose. Wouldn't you want to know that if 15 you were a doctor not involved in this in 16 reading an article, which side the person who 17 authored the article was testifying for? 18 MS. O'DELL: Object to the 19 form. 19 Q 18 MS. O'DELL: Object to the 19 form. 20 BY MR. KLATT: 21 Q. Would that be important to you 21 A. Y 22 to know? 22 Q. St 23 A. I would want to know all the 2 required to be disclosed and I would disclose 3 it. 4 Q. Okay. Can you look at Exhibit 4 Q. Okay. Can you look at Exhibit 5 No. 4, which is Dr. Saed's manuscript. 6 A. Yes. 7 Q. That's not a published article, 8 correct? 9 A. It's an accepted article. 10 Q. Well, it hasn't even been peer 10 the reviewer	and are there any peer review as compared put forth in what ang at? The reviewer's yeah. Say an again. The people peer review an
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7 form. 8 A. I don't know if that's 9 something that is routinely done. If it is, 10 I definitely would do that. 11 BY MR. KLATT: 12 Q. But I'm asking if you, 13 personally, think that's an important fact to 14 disclose. Wouldn't you want to know that if 15 you were a doctor not involved in this in 16 reading an article, which side the person who 17 authored the article was testifying for? 18 MS. O'DELL: Object to the 19 form. 19 Q 20 BY MR. KLATT: 21 Q. Would that be important to you 22 to know? 23 A. I would want to know all the 24 information that I could know. I'm assuming 24 or whatever Page 391 1 that that's information that would be 2 required to be disclosed and I would disclose 3 it. 4 Q. Okay. Can you look at Exhibit 4 Iooking at? 5 No. 4, which is Dr. Saed's manuscript. 6 A. Yes. 7 Q. That's not a published article. 9 A. It's an accepted article. 9 A. It's an accepted article. 9 comments. To the page and the reviewer	n, yes, here. LATT: nd are there any peer review es compared put forth in what ng at? ne reviewer's yeah. Say n again. hen people peer review an
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9 A. It's an accepted article. 9 comments. To Q. Well, it hasn't even been peer 10 the reviewer	his addressing of those
10 Q. Well, it hasn't even been peer 10 the reviewer	_
	his article has the changes that
	e you seen this other
	t has the peer reviewer comments?
13 Q. Can you hand me the article? 13 A. I ha	
	sorry?
718 1 7 7 1	ve seen his letter. I
	at it has all the specific
	has what he's viewing as him
19 peer review, correct? 19 there are com	_
20 MS. O'DELL: Object to the 20 Q. Do	has what he's viewing as him e comments, but I don't know if
21 form. 21 you?	has what he's viewing as him e comments, but I don't know if
22 A. It has been submitted. It has 22 A. I the	has what he's viewing as him e comments, but I don't know if ments or
	has what he's viewing as him e comments, but I don't know if ments or
24 THE WITNESS: Do we have the 24 think then	has what he's viewing as him e comments, but I don't know if ments or you have that letter with

99 (Pages 390 to 393)

	Page 394		Page 396
1	that point.	1	listed here?
2	BY MR. KLATT:	2	A. Beasley Allen isn't listed here
3	Q. Well, if there's anything else	3	either.
4	regarding Dr. Saed that you've reviewed that	4	MS. O'DELL: Object to form.
5	you haven't brought here and marked as an	5	A. It just says he received a
6	exhibit, we'd request that, please.	6	consulting fee. So I don't know where else
7	A. Okay.	7	the money what other money he used.
8	Q. Is that fine with you?	8	BY MR. KLATT:
9	A. Yes.	9	Q. But Beasley Allen isn't even
10	Q. Now, looking at Dr. Saed's	10	listed here, as you said, as a source of the
11	manuscript that's been marked as Exhibit 4,	11	money for his work, correct?
12	I'm going to turn you to	12	MS. O'DELL: Object to the
13	THE WITNESS: Do I have my own	13	form.
14	copy of that? Yes, here it is.	14	A. That's correct.
15	BY MR. KLATT:	15	BY MR. KLATT:
16	Q. I'm going to turn you to	16	Q. Okay. This isn't an adequate
17	page 12 of Exhibit 4.	17	conflict of interest disclosure, is it?
18	A. Yeah.	18	MS. O'DELL: Object to the
19	Q. And do you see down at the	19	form. If you know. Don't guess.
20	bottom of the page, it says "Conflict of	20	A. I'm assuming that this is the
21	Interest"?	21	conflict of interest that they requested from
22	A. Yes.	22	Reproductive Scientists [sic], and if they
23	Q. It says, "The corresponding	23	accept it, then I consider it adequate.
24	author, Dr. Ghassam Saed, acted as a	24	1
	Page 395		Page 397
1	consultant regarding this topic for a fee,	1	BY MR. KLATT:
2	otherwise, the authors declared that there	2	Q. So whatever the journal says is
3	are no conflicts of interest."	3	adequate is adequate in your mind?
4	There's no disclosure there	4	MS. O'DELL: Object to the
5	4 4 D C 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	that Dr. Saed's involved in litigation on	5	form.
6	behalf of plaintiffs in talc ovarian cancer	6	form. BY MR. KLATT:
7	behalf of plaintiffs in talc ovarian cancer cases, is there?	6 7	form. BY MR. KLATT: Q. Is that what you're saying?
7 8	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the	6 7 8	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as
7 8 9	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the form.	6 7 8 9	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as this is what's disclosed. The journal
7 8 9 10	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the form. A. My assumption is that what	6 7 8 9 10	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as this is what's disclosed. The journal accepted the article. I'm assuming they
7 8 9 10 11	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the form. A. My assumption is that what Reproductive Scientists [sic] requested be	6 7 8 9 10 11	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as this is what's disclosed. The journal accepted the article. I'm assuming they considered it was adequate disclosure.
7 8 9 10 11 12	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the form. A. My assumption is that what Reproductive Scientists [sic] requested be disclosed is what is stated here. And so	6 7 8 9 10 11 12	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as this is what's disclosed. The journal accepted the article. I'm assuming they considered it was adequate disclosure. Q. But if you're a physician, a
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7 8 9 10 11 12 13 14 15 16 17 18	behalf of plaintiffs in talc ovarian cancer cases, is there? MS. O'DELL: Object to the form. A. My assumption is that what Reproductive Scientists [sic] requested be disclosed is what is stated here. And so this is what it says. BY MR. KLATT: Q. Who paid the fee to Dr. Saed for doing this work? A. This particularly doesn't say. I'm assuming that attorneys paid the fee. Q. Do you know who paid?	6 7 8 9 10 11 12 13 14 15 16 17 18	form. BY MR. KLATT: Q. Is that what you're saying? A. I'm saying that as far as this is what's disclosed. The journal accepted the article. I'm assuming they considered it was adequate disclosure. Q. But if you're a physician, a gynecologic oncologist out there in the field, not involved in the talc ovarian cancer litigation and you ultimately read Dr. Saed's paper in Reproductive Scientists [sic], aren't you going to want to know that he was a paid witness for the plaintiffs in that litigation?
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	Page 398		Page 400
1	MS. O'DELL: Object to the	1	A. In talcum-based body products,
2	form.	2	my concerns for carcinogenesis are platy
3	A. If I had questions about	3	talc, fibrous talc, asbestos, heavy metal,
4	exactly where the money came from, I would	4	specifically the ones that have been found,
5	call Dr. Saed and ask him.	5	nickel, chromium and cobalt and inflammation
6	BY MR. KLATT:	6	from the fragrances, which I know that
7	Q. Have you ever done that for any	7	inflammation is associated with ovarian
8	article you've read in a journal?	8	cancer and so I have concerns about all of
9	A. I haven't.	9	those.
10	Q. What do you know about the	10	Q. Well, having concerns is one
11	Journal of Reproductive Sciences?	11	thing, but testifying based on a reasonable
12	A. I don't know that much about	12	degree of medical certainty that these things
13	it. It's not a journal that I routinely	13	are, in fact, a cause of ovarian cancer is a
14	read.	14	different thing. So is it your opinion that
15	Q. And as a gynecologic	15	all of these items, platy talc, fibrous talc,
16	oncologist, there's a certain set of journals	16	asbestos, nickel, chromium, cobalt and
17	that you routinely review, correct?	17	fragrance are contributing causes of ovarian
18	A. Yes.	18	cancer in women who use talc-based body
19	MS. O'DELL: Object to the	19	powder products?
20	form.	20	MS. O'DELL: Object to the
21	BY MR. KLATT:	21	form.
22	Q. And Reproductive Sciences is	22	A. It's my opinion that
23	not one of those, right?	23	talcum-based perineum use of talcum-based
24	A. It is not one of those.	24	body products causes ovarian cancer in some
	Page 399		Page 401
1	Q. Had you ever heard of it	1	women and increases the risk in all. When I
2	before?	2	look to see what is in it that could be
3	A. I can't tell you if I've ever	3	dangerous, potentially dangerous to women, I
4	heard of it. I've heard of lots of journals	4	see some things that are known to be
5	over the years and I don't remember all of	5	carcinogenic, such as fibrous talc and
6	them.	6	asbestos and heavy metals. I see some things
7	Q. You don't remember of ever	7	that are possibly carcinogenic, such as platy
8	hearing of Reproductive Sciences before you	8	talc, and I see fragrances that are known to
9	saw Exhibit 4, correct?	9	be irritating and causing inflammation.
10	A. I can't recall.	10	BY MR. KLATT:
11	Q. Now, earlier, you said in	11	Q. Do you think any one of those
12	response to Ms. Brown's questions, that	12	things by itself is capable of causing
13	things that you feel like may be playing a	13	ovarian cancer in women who use talc-based
14	role in talc-based body powder products and	14	body powder products?
15	ovarian cancer, if I got it right, were platy	15	A. I didn't evaluate the data that
16	tale; is that right?	16	way and I don't look at the product that way.
17	MS. O'DELL: Object to the	17	I'm looking at it as a whole.
	form. If you're going to go I'll	18	Q. So if you testify in the
18		19	hearing of Judge Wolfson this year and she
18 19	object each time, but I object to the	1/	
	object each time, but I object to the preparatory language.	20	
19	· ·		asks you, because judges can ask witnesses
19 20	preparatory language.	20	asks you, because judges can ask witnesses questions, which one of these items that
19 20 21	preparatory language. BY MR. KLATT:	20 21	asks you, because judges can ask witnesses

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	Page 402		Page 404
1	to tell her you can't tell her which one of	1	understand.
2	these is capable by itself?	2	A. So let me list them again.
3	MS. O'DELL: Object to the	3	Platy talc has been determined to be possibly
4	form, misstates her testimony.	4	carcinogenic, asbestos has been determined to
5	A. I'm going to tell her just what	5	be carcinogenic, fibrous talc has been
6	I said, that I evaluated the product as a	6	determined to be carcinogenic, nickel and
7	whole and I found evidence of multiple	7	chromium are have been determined to be
8	carcinogenic, possibly carcinogenic and	8	carcinogenic, cobalt has been determined to
9	inflammatory substances that could account	9	be possibly carcinogenic, and the
10	for that. Because they're all in the	10	fragrances some of the substances in the
11	product, I can't separate them out and say	11	fragrance are known to be inflammatory or
12	which one is causing it.	12	cause inflammatory or irritating.
13	BY MR. KLATT:	13	And therefore, when I look at
14	Q. And you can just say that they	14	the product of the whole, with all of that
15	possibly cause it, correct, not that they	15	spectrum of stuff in it, things in it, that
16	probably cause it?	16	at the very least some are, the fragrances
17	MS. O'DELL: Object to the	17	are inflammatory and/or irritating and at the
18	form, misstates her testimony.	18	very most, several are known to be
19	BY MR. KLATT:	19	carcinogenic, that it's the combination of
20	Q. You just said "possibly."	20	that that increases the risk of ovarian
21	Didn't I understand that?	21	cancer in women who use perineal talcum
22	MS. O'DELL: Object to the	22	powder product.
23	form. That's not what she said.	23	BY MR. KLATT:
24	Total That's not what she sata.	24	Q. Are any of these things that
	Page 403		Page 405
1	BY MR. KLATT:	1	you've listed by themselves capable of
2	Q. Let's read it back. I think		you to more of undimedities supported
	Q. Let's read it back. I tillink	2	causing ovarian cancer in women who use
3	you just said "possibly cause," correct?	2 3	
3 4	•		causing ovarian cancer in women who use
	you just said "possibly cause," correct?	3	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by
4	you just said "possibly cause," correct? MS. O'DELL: Object to the	3 4	causing ovarian cancer in women who use tale-based body powder products? A. I'm not aware that anybody has
4 5	you just said "possibly cause," correct? MS. O'DELL: Object to the form. A. No, that's not what I said. I said there are multiple that are	3 4 5	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by
4 5 6	you just said "possibly cause," correct? MS. O'DELL: Object to the form. A. No, that's not what I said. I said there are multiple that are	3 4 5 6	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by themselves to cause to assess the risk of
4 5 6 7	you just said "possibly cause," correct? MS. O'DELL: Object to the form. A. No, that's not what I said. I said there are multiple that are carcinogenic, possibly carcinogenic and inflammatory.	3 4 5 6 7 8 9	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by themselves to cause to assess the risk of ovarian cancer. And since the product contains all of them, I don't know how that can be evaluated.
4 5 6 7 8	you just said "possibly cause," correct? MS. O'DELL: Object to the form. A. No, that's not what I said. I said there are multiple that are carcinogenic, possibly carcinogenic and	3 4 5 6 7 8	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by themselves to cause to assess the risk of ovarian cancer. And since the product contains all of them, I don't know how that can be evaluated. Q. So if you evaluated the
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4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you just said "possibly cause," correct? MS. O'DELL: Object to the form. A. No, that's not what I said. I said there are multiple that are carcinogenic, possibly carcinogenic and inflammatory. BY MR. KLATT: Q. So you're saying they're possibly carcinogenic A. No, I'm saying some of the agents Q. Let me finish not probably carcinogenic, correct? MS. O'DELL: Excuse me. A. No. MS. O'DELL: Excuse me, let me object. Object to the testimony	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	causing ovarian cancer in women who use talc-based body powder products? A. I'm not aware that anybody has looked at using any of those things by themselves to cause to assess the risk of ovarian cancer. And since the product contains all of them, I don't know how that can be evaluated. Q. So if you evaluated the talc-based body powder product as a whole with all these things in them, you weren't just evaluating Imerys raw talc by itself, correct? MS. O'DELL: Object to the form. A. I was evaluating the product. BY MR. KLATT: Q. The product as used by women? A. The product as used by women
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	Page 406		Page 408
1	form.	1	A. There's never been any evidence
2	A. The product that women could	2	of that, that I'm aware of.
3	obtain to use on their perineum.	3	Q. When you you've done
4	BY MR. KLATT:	4	abdominal surgeries on hundreds, if not maybe
5	Q. From retail stores, correct?	5	even thousands of women in your career,
6	MS. O'DELL: Object to the	6	correct?
7	form.	7	A. Yes.
8	A. From wherever they get it.	8	Q. Now, that surgery itself can
9	BY MR. KLATT:	9	cause fibrosis, inflammation and adhesions,
10	Q. And you understand Imerys	10	correct?
11	doesn't sell any talc directly to women?	11	A. That's correct.
12	A. I understand that.	12	Q. And those adhesions can be
13	Q. And you understand fragrance is	13	long-term complications for women, correct?
14	added after the talc leaves Imerys'	14	A. Yes.
15	possession?	15	Q. And that's a form of
16	A. I understand that.	16	inflammation, correct?
17	Q. Do any and all forms of	17	A. It's a form of acute
18	inflammation cause or contribute to ovarian	18	inflammation that leads to a scar or
19	cancer?	19	fibrosis.
20	A. In the studies on inflammation	20	Q. And that's exactly what talc
21	in ovarian cancer, it's and most cancers	21	leads to, correct?
22	and inflammation, it's the concern of chronic	22	MS. O'DELL: Object to the
23	inflammation. T cells, lymphocytes, macro	23	form.
24	fascias causing changes in the oxidation	24	A. There's not evidence of chronic
	Page 407		Page 409
1	making free oxygen free radicals that can	1	inflammation in adhesions secondary to
2	cause changes in the DNA. Not so much	2	surgery. There's an acute reaction and
3	concerned about acute inflammation, but	3	change and then fibrosis can occur, and
4	chronic inflammation.	4	that's what adhesions are, are fibrosis.
5	Q. Do all forms of chronic	5	BY MR. KLATT:
6	inflammation cause ovarian cancer?	6	Q. And that's what happens when
7	A. I'm not sure what forms of	7	talc in sufficient amounts is placed inside
8	chronic inflammation you're asking about.	8	the body, the exact same thing, correct,
9	Q. Well, are you saying that	9	Dr. Wolf?
10	chronic inflammation inevitably can cause	10	MS. O'DELL: Object to the
11	ovarian cancer?	11	form.
11 12	A. Chronic inflammation is a cause	11 12	form. A. It's one of the things that can
		1	A. It's one of the things that can happen when talc is placed inside the body.
12	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer.	12	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT:
12 13 14 15	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn	12 13	A. It's one of the things that can happen when talc is placed inside the body.
12 13 14	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer.	12 13 14	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT:
12 13 14 15	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn	12 13 14 15	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else
12 13 14 15 16	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause	12 13 14 15 16	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that
12 13 14 15 16 17	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause granulomas, adhesions, fibrous tissue	12 13 14 15 16 17	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that talc can cause?
12 13 14 15 16 17	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause granulomas, adhesions, fibrous tissue reactions and it's been banned by the FDA	12 13 14 15 16 17 18	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that talc can cause? MS. O'DELL: Object to the
12 13 14 15 16 17 18 19	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause granulomas, adhesions, fibrous tissue reactions and it's been banned by the FDA from surgical gloves and from patient	12 13 14 15 16 17 18 19	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that talc can cause? MS. O'DELL: Object to the form.
12 13 14 15 16 17 18 19 20	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause granulomas, adhesions, fibrous tissue reactions and it's been banned by the FDA from surgical gloves and from patient examination gloves?	12 13 14 15 16 17 18 19 20	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that talc can cause? MS. O'DELL: Object to the form. A. Yes. When talcum powder
12 13 14 15 16 17 18 19 20 21	A. Chronic inflammation is a cause of ovarian cancer. You could have chronic inflammation and not get ovarian cancer. Q. Are you aware that corn starch-based body powder can cause granulomas, adhesions, fibrous tissue reactions and it's been banned by the FDA from surgical gloves and from patient examination gloves? A. I am aware of that.	12 13 14 15 16 17 18 19 20 21	A. It's one of the things that can happen when talc is placed inside the body. BY MR. KLATT: Q. Well, is there anything else other than that type of tissue reaction that talc can cause? MS. O'DELL: Object to the form. A. Yes. When talcum powder when talc was placed, in an animal study, in

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1	Page 410		Page 412
	BY MR. KLATT:	1	ovarian cancer?
2	Q. Did those animals develop	2	MS. O'DELL: Object to the
3	ovarian cancer?	3	form.
4	A. They did not. But they were	4	A. Are you asking about my
5	sacrificed in a short period of time.	5	anecdotal experience?
6	Q. Can you name for me a single	6	BY MR. KLATT:
7	animal study that you've ever seen, where	7	Q. No, I'm asking you for the
8	tale caused ovarian cancer in the animals?	8	medical evidence that you know, that these
9	A. I cannot.	9	types of long-term adhesions resulting from
10	Q. Can you name in fact, can	10	surgery itself don't cause ovarian cancer in
11	you name for me any animal study you've ever	11	your patients?
12	seen, where asbestos put in animals caused	12	A. I'm not aware of any literature
13	ovarian cancer?	13	that suggests or supports that.
14	MS. O'DELL: Object to the	14	Q. Has it ever been studied?
15	form.	15	A. I'm not aware of any studies
16	A. So ovarian cancer is quite rare	16	that have been published about that.
17	in most animals and so it's very difficult to	17	Q. Well, if it hasn't been
18	have an animal model of something that causes	18	studied, you can't say it doesn't cause
19	ovarian cancer.	19	ovarian cancer, can you?
20	BY MR. KLATT:	20	MS. O'DELL: Object to the
21	O. You know there's animal models	21	form.
22	of peritoneal mesothelioma due to asbestos,	22	BY MR. KLATT:
23	correct?	23	
24	A. I do.	24	Q. You just don't know? MS. O'DELL: Object to the
24	A. 1 do.	24	MS. O'DELL: Object to the
	Page 411		Page 413
1	Q. Are there animal models that	1	form.
2	show that asbestos instilled in animals'	2	A T1 1/2 / 1'
			A. I haven't seen any studies
3	abdominal cavities can cause ovarian cancer?	3	A. I haven't seen any studies about it.
3 4	abdominal cavities can cause ovarian cancer? A. Not that I'm aware of.		=
_		3	about it.
4	A. Not that I'm aware of.	3 4	about it. BY MR. KLATT:
4 5	A. Not that I'm aware of.Q. Do you warn women before you do	3 4 5	about it. BY MR. KLATT: Q. So if something is not studied,
4 5 6	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term	3 4 5 6	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur?
4 5 6 7	A. Not that I'm aware of.Q. Do you warn women before you do surgery on them, that your surgery can cause	3 4 5 6 7	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the
4 5 6 7 8	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian	3 4 5 6 7 8	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form.
4 5 6 7 8	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer?	3 4 5 6 7 8	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT:
4 5 6 7 8 9	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form.	3 4 5 6 7 8 9	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's
4 5 6 7 8 9 10	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that	3 4 5 6 7 8 9 10	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after
4 5 6 7 8 9 10 11	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form.	3 4 5 6 7 8 9 10 11 12	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct?
4 5 6 7 8 9 10 11 12 13	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT:	3 4 5 6 7 8 9 10 11 12 13	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after
4 5 6 7 8 9 10 11 12 13 14	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT:	3 4 5 6 7 8 9 10 11 12 13 14	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the
4 5 6 7 8 9 10 11 12 13 14 15	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer?	3 4 5 6 7 8 9 10 11 12 13 14 15	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form.
4 5 6 7 8 9 10 11 12 13 14 15 16	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from	3 4 5 6 7 8 9 10 11 12 13 14 15	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT:
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus percent of my patients, their ovaries come	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that. MS. O'DELL: Excuse me. Object
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus percent of my patients, their ovaries come out when I operate on them.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that. MS. O'DELL: Excuse me. Object to the form.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus percent of my patients, their ovaries come out when I operate on them. Q. How do you know that these	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that. MS. O'DELL: Excuse me. Object to the form. A. I don't believe those are
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus percent of my patients, their ovaries come out when I operate on them. Q. How do you know that these long-term adhesions that result from	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that. MS. O'DELL: Excuse me. Object to the form. A. I don't believe those are studies that could be done.
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Not that I'm aware of. Q. Do you warn women before you do surgery on them, that your surgery can cause inflammation and adhesion long-term adhesion formation that could cause ovarian cancer? MS. O'DELL: Object to the form. A. I inform my patients that surgery can cause inflammation and adhesions. BY MR. KLATT: Q. Can that cause ovarian cancer? A. Not the adhesions that are formed from the acute inflammation from surgery. I would also say that 90-plus percent of my patients, their ovaries come out when I operate on them. Q. How do you know that these	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	about it. BY MR. KLATT: Q. So if something is not studied, that means it doesn't occur? MS. O'DELL: Object to the form. A. That's not what I said. BY MR. KLATT: Q. Right. Simply because there's no studies doesn't prove that adhesions after surgery don't cause ovarian cancer, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. You'd have to do studies to know that. MS. O'DELL: Excuse me. Object to the form. A. I don't believe those are

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	Page 414		Page 416
1	that you're aware of, correct?	1	who the company what the company it came
2	A. Not that I'm aware of.	2	from, and the mine, if it's if it's noted,
3	Q. You cited about 20 Imerys	3	and any comments.
4	documents in as something that were	4	Q. But my point is, you don't know
5	materials that you considered.	5	that any of these talc samples ended up in
6	A. Yes.	6	any body powder products, correct?
7	Q. Is that correct?	7	A. I don't have that information
8	A. Uh-huh.	8	on these.
9	Q. Were you give a much larger set	9	MS. O'DELL: Object to form.
10	of Imerys documents and you picked those 20	10	BY MR. KLATT:
11	or were those 20 handpicked for you by the	11	Q. I'm sorry?
12	lawyers?	12	A. I don't have that information
13	MS. O'DELL: Object to the	13	on these charts.
14	form.	14	Q. Are you aware the Imerys
15	A. Those documents were provided	15	supplies talc to many industries that have
16	to me by the lawyers.	16	nothing to do with body powder?
17	BY MR. KLATT:	17	A. I am aware of that.
18	Q. So you didn't look at a much	18	Q. Do you understand that there's
19	larger set of Imerys documents yourself and	19	types of talc that are caused called
20	select those 20 yourself, correct?	20	industrial tale that are not used for
21	A. The one that ones that are	21	personal use or cosmetic products?
22	listed on my contributing data list are the	22	A. Yes.
23	ones that I saw.	23	Q. Do you have any idea which one
24	Q. The only ones you saw, correct?	24	of these on Exhibit 47 might fall into the
	Page 415		Page 417
1	A. Yes.	1	industrial talc category rather than the
2	Q. And those were picked by the	2	cosmetic talc category?
3	lawyers and not by you?	3	MS. O'DELL: Object to the
4	MS. O'DELL: Object to form.	4	form.
5	A. Those were given to me by the	5	A. It doesn't say on this list
6	lawyers.	6	where the talc falls in.
7	BY MR. KLATT:	7	BY MR. KLATT:
8	Q. You said earlier you	8	Q. And on many of these tests,
9	referred to Julie Pier, an Imerys scientist,	9	there's not even any asbestos identified at
10	her Exhibit 47 in her MDL deposition. Do you	10	all, correct?
11	recall that?	11	A. On some of them.
12	A. Yes.	12	Q. Are you aware that certain
13	Q. You can't point to me to a	13	types of asbestos are ubiquitous in the
13	Ç		
14	single talc sample that she tested in	14	environment?
		14 15	environment? MS. O'DELL: Object to the
14	single talc sample that she tested in	1	
14 15	single talc sample that she tested in Exhibit 47 that you can show me ended up in	15	MS. O'DELL: Object to the
14 15 16	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you?	15 16	MS. O'DELL: Object to the form.
14 15 16 17	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the	15 16 17	MS. O'DELL: Object to the form. A. I am aware of that.
14 15 16 17 18	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the form.	15 16 17 18	MS. O'DELL: Object to the form. A. I am aware of that. BY MR. KLATT:
14 15 16 17 18	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the form. A. Can I look at it?	15 16 17 18 19	MS. O'DELL: Object to the form. A. I am aware of that. BY MR. KLATT: Q. And you're aware that when talc
14 15 16 17 18 19	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the form. A. Can I look at it? BY MR. KLATT:	15 16 17 18 19 20	MS. O'DELL: Object to the form. A. I am aware of that. BY MR. KLATT: Q. And you're aware that when talc is tested for asbestos, that there can be
14 15 16 17 18 19 20 21	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the form. A. Can I look at it? BY MR. KLATT: Q. Sure. A. What I see on here is the date,	15 16 17 18 19 20 21	MS. O'DELL: Object to the form. A. I am aware of that. BY MR. KLATT: Q. And you're aware that when talc is tested for asbestos, that there can be occasional asbestos particles on the test
14 15 16 17 18 19 20 21	single talc sample that she tested in Exhibit 47 that you can show me ended up in talc-based body powders, can you? MS. O'DELL: Object to the form. A. Can I look at it? BY MR. KLATT: Q. Sure.	15 16 17 18 19 20 21 22	MS. O'DELL: Object to the form. A. I am aware of that. BY MR. KLATT: Q. And you're aware that when talc is tested for asbestos, that there can be occasional asbestos particles on the test equipment itself, correct?

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1 A. I don't I mean, I don't know 2 that. I don't have evidence to support that. 3 BY MR. KLATT: 4 Q. Well, are you aware that in 5 various test methodologies testing talc to 1 BY MR. KLATT: 2 Q. Do you know what that in 3 MS. O'DELL: Object to the form. 5 A. I understand that using	Page 420
2 that. I don't have evidence to support that. 2 Q. Do you know what that i 3 BY MR. KLATT: 3 MS. O'DELL: Object to i 4 Q. Well, are you aware that in 4 form.	
3 BY MR. KLATT: 3 MS. O'DELL: Object to to 4 Q. Well, are you aware that in 4 form.	means?
4 Q. Well, are you aware that in 4 form.	
various test inclinations testing tale to	
6 see whether it has asbestos, that those 6 whatever the ASTM method, that	this finding
7 methods take into account that there may be 7 would be considered background	_
8 occasional contamination of the test 8 don't know if that's the same meth	
9 equipment by asbestos that has nothing to do 9 used to test this.	
10 with the sample being tested? 10 BY MR. KLATT:	
11 MS. O'DELL: Object to the 11 Q. So just in summary, whe	n vou
12 form. 12 cited Julie Pier's Exhibit 47 in you	
13 BY MR. KLATT: 13 you can't tell Judge Wilson that ar	
14 Q. Are you aware of that? 14 samples on Exhibit 47 ended up in	
15 MS. O'DELL: Object to the 15 Johnson baby powder or Shower to	
16 form. 16 correct?	,
17 Don't speculate, Dr. Wolf. If 17 MS. O'DELL: Object to the specific of the	the
18 you know, please say so. If you 18 form, assumes facts not in evid	
19 don't 19 A. I don't have that informa	
20 A. I don't know. 20 BY MR. KLATT:	tion.
21 BY MR. KLATT: 21 Q. Let me ask you about fra	grance
22 Q. If you turn over on the back of 22 Can you rule out fragrance as the	-
page or second page of Exhibit 47 to 23 page or second page of Exhibit 47 to 23 of ovarian cancer in women who	
24 Ms. Pier's deposition. 24 body powder products?	ase tare-based
21 body powder products:	
Page 419	Page 421
1 A. Yes. 1 MS. O'DELL: Object to	o the
2 Q. Do you see, for example, the 2 form.	
3 very last sample says, "finding 3 A. I believe that fragrance	that's
4 indistinguishable from background levels 4 in the product is inflammatory a	nd
5 determined using ASTM method D6620-00"? Do 5 irritating. I don't know of any e	vidence
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 5 irritating. I don't know of any e 6 that has studied that fragrance o 7 as to whether on its own it cause	n its own,
5 determined using ASTM method D6620-00"? Do 5 irritating. I don't know of any e 6 you see that? 6 that has studied that fragrance of	n its own, es ovarian
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 5 irritating. I don't know of any e 6 that has studied that fragrance o 7 as to whether on its own it cause	n its own, es ovarian f the
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 8 Q. Do you have any idea what that 9 determined using ASTM method D6620-00"? Do 5 irritating. I don't know of any e 6 that has studied that fragrance of 7 as to whether on its own it cause 8 cancer or not, or if it were out of	n its own, es ovarian f the cancer or not.
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? 5 irritating. I don't know of any e that has studied that fragrance or as to whether on its own it cause cancer or not, or if it were out or product it would cause ovariant.	n its own, es ovarian f the cancer or not.
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the 5 irritating. I don't know of any e that has studied that fragrance o as to whether on its own it cause cancer or not, or if it were out of product it would cause ovarian of All I have is the information on	n its own, es ovarian f the cancer or not.
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 8 Q. Do you have any idea what that 9 method is? 10 MS. O'DELL: Object to the 11 form. 5 irritating. I don't know of any e 6 that has studied that fragrance o 6 as to whether on its own it cause 7 as to whether on its own it cause 8 cancer or not, or if it were out of 9 product it would cause ovarian of 10 All I have is the information on 11 product.	n its own, es ovarian f the cancer or not. the whole
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 8 Q. Do you have any idea what that 9 method is? 10 MS. O'DELL: Object to the 11 form. 12 A. Well, it's on the left side, 13 this says "Transmission Electron Microscope 10 irritating. I don't know of any e 6 that has studied that fragrance of that has studied that fragrance of as to whether on its own it cause of the that has studied that fragrance of as to whether on its own it cause of the cancer or not, or if it were out of the product it would cause ovariant of the product. 12 BY MR. KLATT: 13 Q. Do you know whether	n its own, es ovarian f the cancer or not. the whole asbestos
5 determined using ASTM method D6620-00"? Do 6 you see that? 7 A. I see that. 8 Q. Do you have any idea what that 9 method is? 10 MS. O'DELL: Object to the 11 form. 12 A. Well, it's on the left side, 13 this says "Transmission Electron Microscope 10 irritating. I don't know of any e 6 that has studied that fragrance of that has studied that fragrance of as to whether on its own it cause of the cancer or not, or if it were out of product it would cause ovariant of the cancer or not, or if it were out of the product it would cause ovariant of the cancer or not, or if it were out of the product it would cause ovariant of the cancer or not, or if it were out of the product it would cause ovariant of the cancer or not, or if it were out of the cancer or not,	n its own, es ovarian f the cancer or not. the whole asbestos
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, A. Well, it's on the left side, Analysis." I don't know if that that's the irritating. I don't know of any e that has studied that fragrance or as to whether on its own it cause as to whether on its own it cause ovariant or as to whether on its own it cause ovariant or product it would cause ovariant or all I have is the information on product. BY MR. KLATT: Q. Do you know whether high levels of asbestos in drinking the strength of that that's the high levels of asbestos in drinking the strength of that that's the high levels of asbestos in drinking the strength of	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, Analysis." I don't know if that that's the same as ASTM or not. BY MR. KLATT: birritating. I don't know of any e that has studied that fragrance or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, Analysis." I don't know if that that's the Analysis." I don't know if that that's the BY MR. KLATT: BY MR. KLATT: A. I don't believe that oraingestion has been shown to cause.	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, Analysis." I don't know if that that's the same as ASTM or not. BY MR. KLATT: Q. But do you understand what it means when it says, "Finding i riritating. I don't know of any e that has studied that fragrance of that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own it cause that has to whether on its own its o	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? A. Well, it's on the left side, Analysis." I don't know if that that's the Same as ASTM or not. BY MR. KLATT: Q. But do you understand what it means when it says, "Finding form. See that. A. I see that. A. I don't know of any enthat has studied that fragrance of that has to whether on its own it causes ovarian on the product. So Do you know whether high levels of asbestos in drinking that has studied that fragrance of the has to whether on its own it causes ovarian cancer? A. I don't know if that that's the high levels of asbestos in drinking that has a state of the has	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, Analysis." I don't know if that that's the Same as ASTM or not. BY MR. KLATT: BY MR. KLATT: A. I don't believe that ora means when it says, "Finding means when it says, "Finding method D6620-00"? Do irritating. I don't know of any e that has studied that fragrance or as to whether on its own it cause cancer or not, or if it were out or method is? product it would cause ovarian on 11 product. BY MR. KLATT: Q. Do you know whether high levels of asbestos in drinking causes ovarian cancer? A. I don't believe that ora ingestion has been shown to cause cancer. Q. So not any just any determined using ASTM method D6620-00"? Do itritating. I don't know of any e that has studied that fragrance or as to whether on its own it cause cancer or not, or if it were out or as to whether on its own it cause as to whether on its own	n its own, es ovarian f the cancer or not. the whole asbestos ng water
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the form. A. Well, it's on the left side, Analysis." I don't know if that that's the MS. ASTM or not. BY MR. KLATT: BY MR. KLATT: A. I don't believe that oral ingestion has been shown to cause ovariand was any would also as bestos cause ovariand and cancer. Q. But do you understand what it means when it says, "Finding midistinguishable from background levels determined using ASTM method D6620-00"? Do you know what irritating. I don't know of any e that has studied that fragrance of as to whether on its own it cause ovarian on the left side, BY MR. KLATT: A. I don't believe that oral ingestion has been shown to cause ovarian cancer. Q. So not any just any exposures to asbestos cause ovary ovariant cancer.	n its own, es ovarian f the cancer or not. the whole asbestos ng water l se ovarian rian cancer,
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? MS. O'DELL: Object to the Analysis." I don't know if that that's the Same as ASTM or not. BY MR. KLATT: A. I don't believe that oral ingestion has been shown to cause ovariand was the indistinguishable from background levels pirritating. I don't know of any e that has studied that fragrance of as to whether on its own it cause cancer or not, or if it were out or product it would cause ovarian of all I have is the information on product. BY MR. KLATT: Q. Do you know whether high levels of asbestos in drinking causes ovarian cancer? A. I don't believe that oral ingestion has been shown to cause ovariance. Q. But do you understand what it means when it says, "Finding determined using ASTM method D6620-00"? Do you know what MS. O'DELL: Excuse me. Object Do irritating. I don't know of any e that has studied that fragrance of as to whether on its own it cause ovarian on product. BY MR. KLATT: A. I don't believe that oral ingestion has been shown to cause ovarian cancer? Q. So not any just any exposures to asbestos cause ova correct? MS. O'DELL: Object to	n its own, es ovarian f the cancer or not. the whole asbestos ng water l se ovarian rian cancer,
determined using ASTM method D6620-00"? Do you see that? A. I see that. Q. Do you have any idea what that method is? A. Well, it's on the left side, Analysis." I don't know if that that's the Same as ASTM or not. BY MR. KLATT: BY MR. KLATT: C. By MR. KLATT: BY MR. KLATT: C. By MR. Klatter C. So not any just any exposures to asbestos cause ova correct?	n its own, es ovarian f the cancer or not. the whole asbestos ng water l see ovarian rian cancer, o the

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	Page 422		Page 424
1	don't think oral ingestion has been shown to	1	BY MR. KLATT:
2	cause ovarian cancer.	2	Q. Is that Exhibit 10?
3	BY MR. KLATT:	3	A. It's Exhibit 13. It's here. I
4	Q. You're aware that there's been	4	thought it was here.
5	studies of drinking of ovarian cancer in	5	MS. O'DELL: This is my copy.
6	women who consumed high levels of drinking	6	What do you have right here?
7	water for long periods of time that had high	7	THE WITNESS: That's
8	levels of asbestos in it, correct?	8	Exhibit 13.
9	MS. O'DELL: Object to the	9	BY MR. KLATT:
10	form.	10	Q. And is 13 the IARC talc
11	A. Restate that question.	11	monograph or the IARC asbestos monograph?
12	BY MR. KLATT:	12	A. It's the IARC talc one.
13	Q. Yeah, I'm sorry, that was a bad	13	Q. Didn't we mark the we did?
14	question. You're aware there's been studies	14	MS. O'DELL: I don't see it.
15	done of women who consumed, over long periods	15	MR. SILVER: Let's go off the
16	of time, drinking water with high levels of	16	record while we look at the exhibit.
17	asbestos in it and had no increased risk of	17	MS. O'DELL: Well, he's asking
18	ovarian cancer, correct?	18	the questions. We're looking here.
19	MS. O'DELL: Object to the	19	There's no need to go off the record,
20	form.	20	I don't think.
21	A. I believe that oral intake of	21	MR. SILVER: Mike, let's do it.
22	asbestos has not been shown to increase the	22	MR. KLATT: Yeah, until we find
23	risk of ovarian cancer.	23	it, let's go off the record, because I
24		24	don't want to waste time looking for
	Page 423		Page 425
1	BY MR. KLATT:	1	it. I thought all the exhibits were
2	Q. Are you aware of any	2	here.
3	nonoccupational studies of women living in	3	MS. O'DELL: Are you going to
4	the vicinity of asbestos mines that show that	4	mark it?
5	they had an increased risk of ovarian cancer?	5	MR. KLATT: No, I thought it's
6	A. I'm not aware of any data	6	already marked.
7	that studies that show that women living	7	MS. BROWN: It's already
			•
8	near mines, that mine asbestos or talcum	8	marked.
8	near mines, that mine asbestos or talcum powder have an increased risk of ovarian	9	marked. MS. O'DELL: Look right there.
8 9 10	powder have an increased risk of ovarian cancer.	9 10	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's
8 9 10 11	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it	9 10 11	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my
8 9 10 11 12	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a	9 10 11 12	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's
8 9 10 11 12 13	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian	9 10 11 12 13	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is.
8 9 10 11 12 13 14	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high	9 10 11 12 13 14	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is.
8 9 10 11 12 13 14	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct?	9 10 11 12 13 14 15	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there.
8 9 10 11 12 13 14 15 16	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the	9 10 11 12 13 14 15 16	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT:
8 9 10 11 12 13 14 15 16 17	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form.	9 10 11 12 13 14 15 16 17	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and
8 9 10 11 12 13 14 15 16 17	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC	9 10 11 12 13 14 15 16 17	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're
8 9 10 11 12 13 14 15 16 17 18	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC monograph, Dr. Wolf, we'll pull it	9 10 11 12 13 14 15 16 17 18	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're looking at Exhibit 10, which is the portion
8 9 10 11 12 13 14 15 16 17 18 19 20	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC monograph, Dr. Wolf, we'll pull it out.	9 10 11 12 13 14 15 16 17 18 19 20	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're looking at Exhibit 10, which is the portion of the IARC 2012 monograph dealing with
8 9 10 11 12 13 14 15 16 17 18 19 20 21	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC monograph, Dr. Wolf, we'll pull it out. A. So the IARC monograph, I know	9 10 11 12 13 14 15 16 17 18 19 20 21	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're looking at Exhibit 10, which is the portion of the IARC 2012 monograph dealing with asbestos; is that correct?
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC monograph, Dr. Wolf, we'll pull it out. A. So the IARC monograph, I know that they looked at I can't remember what	9 10 11 12 13 14 15 16 17 18 19 20 21 22	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're looking at Exhibit 10, which is the portion of the IARC 2012 monograph dealing with asbestos; is that correct? A. Yes.
8 9 10 11 12 13 14 15 16 17 18 19 20 21	powder have an increased risk of ovarian cancer. Q. And, in fact, IARC said it based its determination that there was a potential link between asbestos and ovarian cancer based only on cohort studies of high occupational exposure in women, correct? MS. O'DELL: Object to the form. If you need to look at the IARC monograph, Dr. Wolf, we'll pull it out. A. So the IARC monograph, I know	9 10 11 12 13 14 15 16 17 18 19 20 21	marked. MS. O'DELL: Look right there. THE WITNESS: That's Dr. Saed's paper. This is my CV. This is my report. What's this one? There it is. MS. O'DELL: There it is. A. I knew it was there. BY MR. KLATT: Q. Would you look at page 256, and let's identify for the record that you're looking at Exhibit 10, which is the portion of the IARC 2012 monograph dealing with asbestos; is that correct?

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	Page 426		Page 428
1	IARC Working Group noted a causal association	1	BY MR. KLATT:
2	between exposure to asbestos and cancer of	2	Q. I hand you what's marked as
3	the ovary was clearly established, based on	3	Exhibit 22.
4	five strongly positive cohort mortality	4	A. Page 280.
5	studies of women with heavy occupational	5	Q. And that is the full 2012 IARC
6	exposure to asbestos."	6	asbestos monograph that previously Exhibit 10
7	Correct?	7	was an excerpt from
8	A. I see that.	8	A. Yes.
9	Q. And do you can you flip over	9	Q is that correct?
10	to page 280 of that asbestos IARC monograph.	10	A. That's correct.
11	A. I don't have 280. I only go to	11	Q. And we established that on
12	274.	12	page 256, they said that the link between
13	MS. BROWN: I think your	13	ovarian cancer and asbestos was based on
14	counsel has the did we give you the	14	heavy occupational exposure to asbestos in
15	larger copy?	15	women, correct?
16	MS. O'DELL: You gave me this	16	MS. O'DELL: Object to the
17	copy. But it and it's definitely a	17	form.
18	larger one, but let's see what	18	BY MR. KLATT:
19	THE WITNESS: I got it. I got	19	O. Is that correct?
20	page 280.	20	A. "The Working Group noted that a
21	MS. BROWN: Here's another one	21	causal association between exposure and
22	if you need another one.	22	cancer in the" "to asbestos and cancer of
23	BY MR. KLATT:	23	the ovary was clearly established, based on
24	Q. Actually, that's my highlighted	24	five strongly positive cohort studies of
	Page 427		Page 429
1	one. Can I give you this one? I just want	1	women with heavy occupational exposure to
2	you to verify that you're looking at the same	2	asbestos."
3	thing that's been marked as Exhibit 10.	3	Yes.
4	MS. O'DELL: Well, it's	4	Q. Now, flip over, if you would,
5	actually not the same as Exhibit 10,	5	to page 280.
6	because what you provided to her is a	6	A. Okay. I'm there.
7	more comprehensive copy of the	7	Q. I believe in the right-hand
8	monograph.	8	column, this same exact working group, what
9	MR. KLATT: What I provided her	9	did they say about the relationship between
10	was the complete asbestos monograph	10	talc and ovarian cancer?
11	that Exhibit 10 is a part of.	11	MS. O'DELL: I'm sorry, where
12	MS. O'DELL: Well, that's my	12	are you reading, Mike? On 280?
13	point.	13	BY MR. KLATT:
14	MR. KLATT: Okay.	14	Q. Do you see
15	MS. O'DELL: It's not the same	15	MS. O'DELL: Are you reading
16	thing. And so just mark it.	16	BY MR. KLATT:
17	MS. BROWN: Let's just mark it.	17	Q. On page 280, it makes a comment
18	MR. KLATT: Yeah, let's mark	18	about
19	this as whatever our next exhibit is.	19	A. They're referencing the IARC
20	Do you know what that number	20	10.
21	is?	21	Q. Yeah. And what does
22	(Deposition Exhibit 22 marked	22	A. "The association between
23	for identification.)	23	exposure to talc," that one?
24	,	24	Q. Yes. Can you read that into
		1	`

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	Page 430		Page 432
1	the record?	1	to the ovary, have they?
2	A. "Potential retrograde	2	A. No. That they're carcinogenic,
3	translocation to the ovarian epithelium and	3	not specifically to the ovary.
4	the development of ovarian cancer"	4	Q. The type of carcinogenicity
5	THE REPORTER: Hold on. You're	5	they're referring to with those metals are
6	going to have to back up	6	when they're breathed in fumes, correct?
7	THE WITNESS: Okay.	7	A. I can't recall.
8	A. "The association between	8	Q. Are you aware that chromium is
9	exposure to talc, potential retrograde	9	an essential trace heavy metal for nutrition?
10	translocation to the ovarian epithelium and	10	MS. O'DELL: Object to the
11	the development of ovarian cancer is	11	form.
12	controversial."	12	A. I haven't studied nutrition in
13	And this is referencing IARC	13	a long time. If I saw a list and saw it on
14	2010 and this volume.	14	there, I can't I don't know I'm not
15	Q. So while the IARC working group	15	aware of that.
16	in 2012 said that asbestos exposure is	16	BY MR. KLATT:
17	related to ovarian cancer based on heavy	17	Q. Chromium's contained in
18	occupational exposure, this same working	18	multivitamins, isn't it, Dr. Wolf?
19	group said the association between exposure	19	A. I don't know. I don't take
20	to talc, retrograde translocation to the	20	multivitamins and I don't recommend them to
21	ovary and development of ovarian cancer is	21	my patients.
22	controversial, correct?	22	Q. Chromium can help control your
23	MS. O'DELL: Object to the	23	blood sugar, right?
24	form.	24	A. Are you telling me that
	101111		110 you terming into their
	Page 431		Page 433
			rage 133
1	A. So that was the conclusion of	1	chromium is released from the pancreas to
1 2	A. So that was the conclusion of the IARC 10 talc	1 2	
			chromium is released from the pancreas to
2	the IARC 10 talc	2	chromium is released from the pancreas to help control blood sugar?
2	the IARC 10 tale BY MR. KLATT:	2 3	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does
2 3 4	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC	2 3 4	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body?
2 3 4 5	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct?	2 3 4 5	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't.
2 3 4 5 6	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the	2 3 4 5 6	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence
2 3 4 5 6 7	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form.	2 3 4 5 6 7	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or
2 3 4 5 6 7 8	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT:	2 3 4 5 6 7 8	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body
2 3 4 5 6 7 8	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct?	2 3 4 5 6 7 8	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have
2 3 4 5 6 7 8 9	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the	2 3 4 5 6 7 8 9	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products?
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2 3 4 5 6 7 8 9 10 11 12	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the form. A. It says "and this volume."	2 3 4 5 6 7 8 9 10 11 12	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products? A. I'm not aware that that study has been done.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the form. A. It says "and this volume." BY MR. KLATT: Q. And this volume is what? A. 2012. MS. O'DELL: Object to the form. BY MR. KLATT: Q. The this volume that you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products? A. I'm not aware that that study has been done. Q. So you're not aware of any evidence of that, correct? MS. O'DELL: Objection to the form. A. I'm not aware that any study like that has been performed.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the form. A. It says "and this volume." BY MR. KLATT: Q. And this volume is what? A. 2012. MS. O'DELL: Object to the form. BY MR. KLATT: Q. The this volume that you just referred to is the 2012 IARC asbestos	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products? A. I'm not aware that that study has been done. Q. So you're not aware of any evidence of that, correct? MS. O'DELL: Objection to the form. A. I'm not aware that any study like that has been performed. BY MR. KLATT: Q. Are you aware that cobalt is an
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the form. A. It says "and this volume." BY MR. KLATT: Q. And this volume is what? A. 2012. MS. O'DELL: Object to the form. BY MR. KLATT: Q. The this volume that you just referred to is the 2012 IARC asbestos monograph, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products? A. I'm not aware that that study has been done. Q. So you're not aware of any evidence of that, correct? MS. O'DELL: Objection to the form. A. I'm not aware that any study like that has been performed. BY MR. KLATT: Q. Are you aware that cobalt is an essential part of vitamin B12? A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the IARC 10 talc BY MR. KLATT: Q. And it also refers to the IARC 2012 asbestos monograph, correct? MS. O'DELL: Object to the form. BY MR. KLATT: Q. Correct? MS. O'DELL: Object to the form. A. It says "and this volume." BY MR. KLATT: Q. And this volume is what? A. 2012. MS. O'DELL: Object to the form. BY MR. KLATT: Q. The this volume that you just referred to is the 2012 IARC asbestos monograph, correct? A. That's correct.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	chromium is released from the pancreas to help control blood sugar? Q. Do you know what chromium does as an essential trace nutrient in the body? A. I don't. Q. Are you aware of any evidence that the chromium levels in the blood or tissue of women who use talc-based body powder exceeds that in women who never have used such products? A. I'm not aware that that study has been done. Q. So you're not aware of any evidence of that, correct? MS. O'DELL: Objection to the form. A. I'm not aware that any study like that has been performed. BY MR. KLATT: Q. Are you aware that cobalt is an essential part of vitamin B12? A. Yes.

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	Page 434		Page 436
1	A. I do.	1	BY MR. KLATT:
2	Q. Do you know that cobalt plays a	2	Q. So you know of no such
3	vital role in the Krebs cycle in the human	3	evidence, correct?
4	body?	4	MS. O'DELL: Object to the
5	A. It's also been shown to be	5	form.
6	carcinogenic, possibly carcinogenic.	6	A. I'm not aware of any
7	Q. Has IARC ever said that cobalt	7	evidence any study that's looked at that
8	is possibly carcinogenic to the ovaries?	8	question.
9	A. Not specifically to the	9	BY MR. KLATT:
10	ovaries.	10	Q. Would you agree with me that
11	Q. Are you aware of any evidence	11	foreign particles, other than talc that had
12	that the cobalt levels in the blood or tissue	12	nothing to do with talc or talc-based body
13	of women who use talc-based body powder	13	powders, can be introduced into the female
14	exceeds that in the blood or tissues of women	14	reproductive tract by the activities you
15	who have never used such body powders?	15	listed earlier, intercourse, going to the
16	A. I'm not aware of any studies	16	bathroom, toilet paper, riding a bike,
17	that have been done to show that.	17	exercising, use of tampons, walking, all
18	Q. So you're not aware of any such	18	those activities can introduce non-talc
19	evidence, correct?	19	foreign particles into the reproductive
20	MS. O'DELL: Object to the	20	tract?
21	form.	21	A. If they're exposed to the
22	A. I'm not aware of any studies	22	perineal tissue, they could.
23	that have looked at that.	23	Q. Are you aware that pathologists
24		24	hired by these plaintiffs' lawyers have found
	Page 435		Page 437
1	BY MR. KLATT:	1	hundreds of foreign particles that have
2	Q. Are you aware that nickel is	2	nothing to do with talc-based body powders in
3	found in nuts, dried beans, peas, soybeans,	3	the tissues of women who have ovarian cancer?
4	grains and chocolate?	4	MS. O'DELL: Object to the
5	A. I'm not aware of that.	5	form.
6	Q. Are you aware that nickel is	6	A. I'm not aware of that
7	found in some multivitamins?	7	information.
8	MS. O'DELL: Object to the	8	BY MR. KLATT:
9	form.	9	Q. Would that surprise you?
10	A. I don't look at the list of	10	A. It would not surprise me.
11	multivitamins, so I'm going to say I don't	11	Q. Why?
7 7		12	A. Because I have multiple levels
12	know.		*
13	BY MR. KLATT:	13	of evidence that inert particles can go from
13 14	BY MR. KLATT: Q. Can you tell Judge Wolfson of	13 14	of evidence that inert particles can go from the vagina and reach the upper
13 14 15	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of	13 14 15	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract.
13 14 15 16	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who	13 14 15 16	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity
13 14 15 16 17	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in	13 14 15 16 17	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that
13 14 15 16 17	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never	13 14 15 16 17 18	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with talc-based body
13 14 15 16 17 18	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never used such products?	13 14 15 16 17 18 19	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with tale-based body powders, might be responsible for
13 14 15 16 17 18 19	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never used such products? A. I'm not	13 14 15 16 17 18 19 20	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with talc-based body powders, might be responsible for inflammation that causes ovarian cancer?
13 14 15 16 17 18 19 20 21	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never used such products? A. I'm not MS. O'DELL: Excuse me. Object	13 14 15 16 17 18 19 20 21	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with talc-based body powders, might be responsible for inflammation that causes ovarian cancer? MS. O'DELL: Object to the
13 14 15 16 17 18 19 20 21 22	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never used such products? A. I'm not MS. O'DELL: Excuse me. Object to the form.	13 14 15 16 17 18 19 20 21 22	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with talc-based body powders, might be responsible for inflammation that causes ovarian cancer? MS. O'DELL: Object to the form.
13 14 15 16 17 18 19 20 21	BY MR. KLATT: Q. Can you tell Judge Wolfson of any evidence you know of, that the levels of nickel in the blood or tissues of women who use talc-based body powders exceeds that in the blood or tissues of women who have never used such products? A. I'm not MS. O'DELL: Excuse me. Object	13 14 15 16 17 18 19 20 21	of evidence that inert particles can go from the vagina and reach the upper reproductive female reproductive tract. Q. Do you have any curiosity whether any of these inert particles that have nothing to do with talc-based body powders, might be responsible for inflammation that causes ovarian cancer? MS. O'DELL: Object to the

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1	anything else, I would definitely want it	1	A. Most of it's eliminated out of
2	studied. I've never seen an epidemiologic	2	the body. In the vast majority of women,
3	study that suggested that toilet paper or any	3	some of it goes retrograde.
4	of those other things you mentioned are	4	Q. And you talked about
5	potentially associated with an increased risk	5	endometriosis earlier, correct?
6	of ovarian cancer.	6	A. Yes.
7	BY MR. KLATT:	7	Q. That's endometrial tissue
8	Q. Are you aware in the '60s and	8	that's already in the uterus that may get
9	'70s, that tampons contained asbestos?	9	into the peritoneum, correct?
10	A. I wasn't aware of that.	10	MS. O'DELL: Objection.
11	MS. O'DELL: You were not or	11	A. It's endometrial tissue that
12	you were? I'm sorry.	12	during the time of menstruation goes back out
13	THE WITNESS: Was not.	13	through the fallopian tubes and goes it
14	BY MR. KLATT:	14	can go in the ovaries, in the pelvis,
15	Q. Have you investigated had	15	anywhere in the abdomen. I've seen it in the
16	any curiosity about investigating the	16	chest.
17	non-talc-based body powder particles that	17	BY MR. KLATT:
18	women's reproductive tracts may be exposed to	18	Q. But that endometrial tissue
19	that can result in ovarian cancer?	19	starts in the uterus, correct?
20	MS. O'DELL: Object to the	20	A. That's correct.
21	form.	21	Q. That's halfway up the
22	A. I don't have any evidence that	22	reproductive tract to the ovaries, correct?
23	there's anything else that's been suggested	23	A. That's in the uterus.
24	that something else could cause ovarian	24	Q. You're not aware of any sort of
	Daga 420		Dogo 441
1	Page 439		Page 441
1	cancer, that's introduced through the	1	endometrial tissue coming from the external
2	perineum.	2	genital area, moving up the vagina, across
3	BY MR. KLATT:	3	the cervix into the uterus, correct?
4	Q. People just haven't looked at	4	A. Well, there isn't any
5	it, correct?	5	endometrial tissue in the vagina or the
6	MS. O'DELL: Object to the	6	cervix.
7	form.	7	Q. That's my point. The tissue in
8	A. Generally, people look at a	8	endometriosis starts in the uterus, correct?
9	question when they see something that happens	9	A. Yes.
10	that suggests that there may be a	10	Q. The talc particles that women
11	correlation.	11	apply when they apply talc, are applied
12	BY MR. KLATT:	12	externally, correct?
13	Q. But there's lots of things that	13	A. That's correct.
14	can cause cancer that haven't been studied	14	Q. Okay. And so they're nowhere
	yet, correct?	15	near the uterus when they're applied,
15		16	correct?
16	MS. O'DELL: Object to the		
16 17	form.	17	MS. O'DELL: Object to the
16 17 18	form. A. I don't know the answer to	17 18	MS. O'DELL: Object to the form.
16 17 18 19	form. A. I don't know the answer to that.	17 18 19	MS. O'DELL: Object to the form. A. Define "near."
16 17 18 19 20	form. A. I don't know the answer to that. BY MR. KLATT:	17 18 19 20	MS. O'DELL: Object to the form. A. Define "near." BY MR. KLATT:
16 17 18 19 20 21	form. A. I don't know the answer to that. BY MR. KLATT: Q. You would agree with me, that	17 18 19 20 21	MS. O'DELL: Object to the form. A. Define "near." BY MR. KLATT: Q. They're on the external genital
16 17 18 19 20 21	form. A. I don't know the answer to that. BY MR. KLATT: Q. You would agree with me, that during a woman's reproductive years, every	17 18 19 20 21 22	MS. O'DELL: Object to the form. A. Define "near." BY MR. KLATT: Q. They're on the external genital area, correct?
16 17 18 19 20 21	form. A. I don't know the answer to that. BY MR. KLATT: Q. You would agree with me, that	17 18 19 20 21	MS. O'DELL: Object to the form. A. Define "near." BY MR. KLATT: Q. They're on the external genital

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	Page 442		Page 444
1	Q. And they have the entire	1	THE VIDEOGRAPHER: Going off
2	vaginal canal between the external genital	2	the record. The time is 5:51 p.m.
3	area and then the cervix, correct?	3	(Recess taken from 5:51 p.m. to
4	A. Correct.	4	5:52 p.m.)
5	Q. And then they have to cross the	5	THE VIDEOGRAPHER: Back on the
6	cervix, correct?	6	record. The time is 5:52 p m.
7	A. Yeah.	7	BY MR. KLATT:
8	Q. Before they even get to the	8	Q. Dr. Wolf, just a quick question
9	uterus, correct?	9	about your CV. I just want to make sure I'm
10	A. That's correct.	10	clear. Have you ever held the position of
11	Q. And they're still not to the	11	full professor at an institution?
12	fallopian tubes or ovaries, right?	12	A. Yes.
13	A. That's correct.	13	Q. Okay. I just wasn't sure. And
14	Q. And I understand that you	14	that's listed on your CV; is that correct?
15	testified earlier today, that you don't know	15	A. Yes.
16	of a single study that traced talc particles	16	Q. And are you still holding a
17	placed externally and traced them up the	17	full professorship, or did you give that up
18	vaginal canal, across the cervix, through the	18	at some point?
19	uterus, up the fallopian tubes to the	19	A. I gave that up.
20	ovaries, correct?	20	Q. When was that?
21	MS. O'DELL: Object to the	21	A. When I left Banner MD Anderson
22	form.	22	in 2014. I haven't had an academic position
23	A. I'm aware of multiple studies	23	since then.
24	of other inert products that cross from the	24	Q. And earlier, you said that you
	Page 443		Page 445
1			
1	genital area or the vagina, into the	1	had seen inflammation when you operated on
2	genital area or the vagina, into the ovaries and the pelvis. As since other	1 2	had seen inflammation when you operated on women with ovarian cancer, I think?
2	ovaries and the pelvis. As since other	2	women with ovarian cancer, I think?
2 3	ovaries and the pelvis. As since other inert substances do cross that way, it makes	2 3	women with ovarian cancer, I think? MS. O'DELL: Object to form.
2 3 4	ovaries and the pelvis. As since other inert substances do cross that way, it makes sense to me that talc or something else,	2 3 4	women with ovarian cancer, I think? MS. O'DELL: Object to form. A. I have seen pathologic slides.
2 3 4 5	ovaries and the pelvis. As since other inert substances do cross that way, it makes sense to me that talc or something else, other things that we talked about, certainly could also. BY MR. KLATT:	2 3 4 5	women with ovarian cancer, I think? MS. O'DELL: Object to form. A. I have seen pathologic slides. I look at all the slides of my patients with
2 3 4 5 6	ovaries and the pelvis. As since other inert substances do cross that way, it makes sense to me that talc or something else, other things that we talked about, certainly could also. BY MR. KLATT: Q. But none of those particles	2 3 4 5 6	women with ovarian cancer, I think? MS. O'DELL: Object to form. A. I have seen pathologic slides. I look at all the slides of my patients with ovarian cancer. And sometimes you see
2 3 4 5 6 7 8	ovaries and the pelvis. As since other inert substances do cross that way, it makes sense to me that talc or something else, other things that we talked about, certainly could also. BY MR. KLATT: Q. But none of those particles that you just referred to were applied	2 3 4 5 6 7 8	women with ovarian cancer, I think? MS. O'DELL: Object to form. A. I have seen pathologic slides. I look at all the slides of my patients with ovarian cancer. And sometimes you see inflammation in relationship with the cancer. BY MR. KLATT: Q. And cancer itself is capable of
2 3 4 5 6 7 8 9	ovaries and the pelvis. As since other inert substances do cross that way, it makes sense to me that talc or something else, other things that we talked about, certainly could also. BY MR. KLATT: Q. But none of those particles that you just referred to were applied externally, correct?	2 3 4 5 6 7 8	women with ovarian cancer, I think? MS. O'DELL: Object to form. A. I have seen pathologic slides. I look at all the slides of my patients with ovarian cancer. And sometimes you see inflammation in relationship with the cancer. BY MR. KLATT: Q. And cancer itself is capable of causing inflammation, correct?
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112 (Pages 442 to 445)

	Page 446		Page 448
1	EXAMINATION	1	Q. And J&J counsel purported to
2	BY MS. O'DELL:	2	or suggested that FDA's testing of talcum
3	Q. Dr. Wolf, just a few questions	3	powder products, including J&J's talc, had
4	for you. You were shown two exhibits today,	4	resulted in a finding that there was no
5	Exhibit 20 and Exhibit 21, from a website	5	asbestos in baby powder. Do you recall that?
6	from a company that you were formerly	6	MS. BROWN: Objection to the
7	employed by. Do you recall those questions	7	form.
8	and exhibits?	8	A. I recall that.
9	A. Yes.	9	BY MS. O'DELL:
10	Q. And have you had an opportunity	10	Q. All right. If you'll turn over
11	to review these documents?	11	to page 2 of Exhibit 9, did the FDA state
12	A. Yes.	12	that the testing that they performed was
13	Q. And is there anything that's	13	evidence that there was no asbestos in
14	contained in the materials that you that	14	cosmetic talc?
15	are in these documents that's inaccurate?	15	A. Under the results of the FDA
16	A. No.	16	survey and what they mean, it says they found
17	Q. Is there anything about what	17	no asbestos fibers or structures in any of
18	was written here that's inconsistent with any	18	the samples that they tested, to shorten it
19	of the opinions that you've given in this	19	out. But the results were limited, because
20	litigation?	20	only four talc suppliers submitted samples,
21	A. No.	21	and by the number of products tested. The
22	Q. And in terms of the risk	22	next sentence says, "While the FDA finds
23	factors that you touched on in either of	23	these results informative, they do not prove
24	these two articles, are there any risk	24	that most or all tale or tale-containing
	, , , , , , , , , , , , , , , , , , ,		
	Page 447		Page 449
1	factors other than family history or	1	cosmetic products currently marketed in the
2	familial-related risk factors?	2	United States are likely to be free of
3	A. In the "How to find the best	3	asbestos contamination."
4	doctor for ovarian cancer" article, I talk	4	Q. J&J's counsel didn't read that
5	about familial risk factors, but don't list	5	sentence to you, did she?
6	any of the other ones.	6	MS. BROWN: Objection to the
7	Q. I'm sorry. So you don't	7	form.
8	address lifestyle risk factors such as	8	A. No.
9	A. I don't.	9	BY MS. O'DELL:
10	Q as talc or any others?	10	Q. You were also shown a what's
11	A. Or other hormonal risk factors	11	called a PDQ from the National Cancer
12	or anything else.	12	Institute website, Exhibit 18. Do you have
13	or anything else. Q. You've talked today about	13	Institute website, Exhibit 18. Do you have that in front of you?
13 14	or anything else. Q. You've talked today about talcum powder products. When you've referred	13 14	Institute website, Exhibit 18. Do you have that in front of you? A. I have it.
13 14 15	or anything else. Q. You've talked today about talcum powder products. When you've referred to talcum powder products, what did you mean	13 14 15	Institute website, Exhibit 18. Do you have that in front of you? A. I have it. Q. And you were asked questions
13 14 15 16	or anything else. Q. You've talked today about talcum powder products. When you've referred to talcum powder products, what did you mean in your testimony?	13 14 15 16	Institute website, Exhibit 18. Do you have that in front of you? A. I have it. Q. And you were asked questions about the section that dealt with talc. Do
13 14 15 16 17	or anything else. Q. You've talked today about talcum powder products. When you've referred to talcum powder products, what did you mean in your testimony? A. Johnson & Johnson baby powder	13 14 15 16 17	Institute website, Exhibit 18. Do you have that in front of you? A. I have it. Q. And you were asked questions about the section that dealt with talc. Do you recall that?
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113 (Pages 446 to 449)

	Page 450		Page 452
1	are they?	1	experts regarding the appropriate methodology
2	A. The reference are numbers 41,	2	for testing asbestos in talc?
3	42, 43, 44 and 45.	3	MS. BROWN: Objection to the
4	Q. Do you need some water?	4	form.
5	A. Yeah, I need some more.	5	A. I would refer to other experts
6	Q. And if you'll turn to page 16	6	in that area.
7	of 18 of Exhibit 18, you'll see it lists	7	BY MS. O'DELL:
8	there references 41 through 45.	8	Q. Would you would you defer
9	A. Yes.	9	to back up just a second.
10	Q. And do those appear to be the	10	You were asked questions about
11	references that the authors at NCI relied on	11	Dr. Longo and Rigler's report in the MDL.
12	in reaching their opinions regarding perineal	12	A. Yes.
13	talc use?	13	Q. And you recall in Dr. Longo and
14	A. Yes.	14	Rigler's report, that they do perform a
15	Q. And do those include excuse	15	quantification or an estimate of the number
16	me. Do those references include the broad	16	of fibers in a particular bottle if there's a
17	cross section of evidence that you reviewed	17	positive test. Do you recall those?
18	and considered in reaching your opinions in	18	A. Yes.
19	this case?	19	MS. BROWN: Objection to the
20	MS. BROWN: Objection to the	20	form.
21	form.	21	BY MS. O'DELL:
22	A. No.	22	Q. Would you defer to Dr. Longo
23	BY MS. O'DELL:	23	and Dr. Rigler on calculations like that, in
24		24	terms of the specific composition of a
21	Q. Are at least two of the five	24	terms of the specific composition of a
	Page 451		Page 453
1		1	Page 453 specific bottle?
1 2	references in early 2000s, I think 2000 and 2003?	1 2	specific bottle?
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2	references in early 2000s, I think 2000 and 2003?	2	specific bottle? MS. BROWN: Objection to the
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8 of the particular talc ore deposit? 9 A. A talc deposit? 10 Q. Yes. 10 11 A. Yes. 11 12 Q. You were also asked by 12 13 Mr. Klatt about adhesions and inflammation, 13 14 acute inflammation following a surgical 14 acute inflammation following a surgical 15 procedure. Is there any evidence any 16 suggestion that acute inflammation following 16 assugestion that acute inflammation following 16 yespestion to what ultimately would be a jury, 15 but initially will be Judge Wolfson, what the possible routes of exposure are for, you 17 as surgical procedure causes ovarian cancer? 17 know, asbestos and fibrous talc reaching the ovary in the context of talcum powder 19 yes, the 2010 monograph. It was marked as 21 form. 21 yes, the 21 yes, the 22 knibit 13. 22 yes at it in 2006, I believe it was, were they 23 considering talc containing asbestiform 24 fibers? 25 MR. KLATT: Objection, form. 26 BY MS. O'ELL: 27 C. Let me just ask let me ask you a different way, see if I can address the objection. 29 why don't you turn to page 277, 11 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 18 the 2010 monograph? 31 the 2010 monograph? 32 that the IARC working group is considering in 18 the 2010 monograph? 32 that the IARC working group is considering in 18 the 2010 monograph? 34 monograph purported not to address tale with 18 asbestos? 34 mR. KLATT: Objection, form. 35 mR. SBOWN: Objection, form. 36 mR. SBOWN: Objection, form. 36 mR. SBOWN: Objection, form. 37 mR. SBOWN: Objection, form. 39 mR. SBOWN: Objection, form. 30 mr. American absestos and fibrous talc were known human acrecingens? 30 with asbestos and fibrous talc were known human acrecingens? 30 monograph? 31 mR. SBOWN: Objection, form. 32 mr. American acrecingens? 31 mr. American acrecingens? 32 mr. American acrecing absets ovaries, they can cause ovarian cancer? 32 mr. Americance acrecingens? 32 mr		Page 454		Page 456
the form objection is, but let me see 4 if I can address it. 5 BY MS, O'DELL: 6 Q. Dr. Wolf, would you defer to 7 geology experts in terms of the composition 8 of the particular tale ore deposit? 9 A. A tale deposit? 9 A. A tale deposit? 10 Q. Yes. 11 A. Yes. 12 Q. You were also asked by 12 Q. You were also asked by 13 Mr. Klatt about adhessions and inflammation, 14 acute inflammation following a surgical 15 procedure. Is there any evidence — any 16 suggestion that acute inflammation following 17 a surgical procedure causes ovarian cancer? 18 A. No. 19 Q. Let me—you were asked some 20 questions about the IARC monograph, Volume 21 93, the 2010 monograph. It was marked as 22 Exhibit 13. 23 A. This one. Yes. 24 Q. And, Dr. Wolf, was IARC's Page 455 1 examination of tale at the time they looked 2 at it in 2006, I believe it was, were they 3 considering tale containing asbestiform 4 fibers? MR. KLATT: Objection, form. 5 BY MS. O'DELL: 4 Q. Let me—just ask—let me ask 4 you a different way, see if I can address the 5 Objection. Why don't you turn to page 277, 10 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 13 the 2010 monograph? 14 A. Tale not containing asbestso 15 Greign fibers. Q. In other words, the 2010 monograph purported not to address tale with 18 absestos? 19 MS. BROWN: Objection, form. 10 MS. BROWN: Objection, form. 11 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 13 the 2010 monograph? 14 A. Tale not containing asbestso 15 foreign fibers. Q. In other words, the 2010 monograph purported not to address tale with 18 absestos? 19 MS. BROWN: Objection, form. 10 MS. BROWN: Objection, form. 11 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 13 the 2010 monograph? 14 A. Tale not containing asbestos 15 foreign fibers. Q. In other words, the 2010 monograph purported not to address tale with 18 absestos? 19 MS. BROW	1	MS. BROWN: Form.	1	the literature, the totality of the evidence,
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5 BY MS. O'DELL: 6 Q. Dr. Wolf, would you defer to 7 geology experts in terms of the composition 8 of the particular tale ore deposit? 9 A. A tale deposit? 9 A. A tale deposit? 9 A. A tale deposit? 10 Q. Yes. 11 A. Yes. 12 Q. You were also asked by 13 Mr. Klatt about adhesions and inflammation, 14 acute inflammation following a surgical 15 procedure. Is there any evidence any 16 suggestion that acute inflammation following a surgical 17 a surgical procedure causes ovarian cancer? 18 A. No. 19 Q. Let me - you were asked some 20 questions about the IARC monograph, Volume 21 93, the 2010 monograph? 22 Exhibit 13. 23 A. This one. Yes. 24 Q. And, Dr. Wolf, was IARC's 25 MR. KLATT: Objection, form. 26 BY MS. O'DELL: 8 Q. Let me just ask let me ask 9 you a different way, see if I can address the objection. 9 Why don't you turn to page 277, 10 Please. And, Dr. Wolf, what is the substance that the IARC working group is considering in the 2010 monograph? 10 Why don't you turn to page 277, 11 please. And, Dr. Wolf, what is the substance that the IARC working group is considering in the 2010 monograph purported not to address tale with asbestos? 10 A. Tale not containing asbestor 11 Mr. KLATT: Objection, form. 12 Mr. SROWN: Objection, form. 13 Mr. SROWN: Objection, form. 14 A. Tale not containing asbestor 15 Mr. SROWN: Objection, form. 16 Mr. KLATT: Objection, form. 17 Mr. SROWN: Objection, form. 18 Mr. SROWN: Objection, form. 19 Mr. SROWN: Objection, form. 20 Mr. SROWN: Objection, form. 21 Mr. SROWN: Objection, form. 22 Mr. SROWN: Objection, form. 23 Mr. SROWN: Objection, form. 24 Mr. SROWN: Objection, form. 25 Mr. SROWN: Objection, form. 26 Mr. SROWN: Objection, form. 27 A. Yes. 28 Mr. SROWN: Objection, form. 29 Mr. SROWN: Objection, form. 30 Mr. SROWN: Objection, form. 31 Mr. SROWN: Objection, form. 32 Mr. SROWN: Objection, form. 34 Mr. SROWN: Objection, form. 35 Mr. SROWN: Objection, form. 36 Mr. SROWN: Objection, form. 37 Mr. SROWN: Objection, form. 38 Mr. SROWN: Objection, form. 39 Mr. SROWN: Objection, form. 3	3	the form objection is, but let me see	3	A. Yes.
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6 BY MS. O'DELL: 7 Q. Let me just ask let me ask 8 you a different way, see if I can address the 9 objection. 9 you've just expressed supported by the data 10 Why don't you turn to page 277, 11 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 13 the 2010 monograph? 14 A. Talc not containing asbestos 15 foreign fibers. 16 Q. In other words, the 2010 17 monograph purported not to address talc with 18 asbestos? 19 and get into the perineal cavity that way. 10 BY MS. O'DELL: 10 And is are those opinions 11 you've just expressed supported by the data 12 in the IARC monograph, the 2012 monograph 13 A. Yes. 14 A. Yes. 15 BY MS. O'DELL: 16 Q. And did IARC conclude that when 17 asbestos and fibrous talc reached the 18 ovaries, they can cause ovarian cancer? 19 A. Yes. 19 A. Yes. 10 in the IARC monograph, the 2012 monograph 11 Dijection, form. 12 A. Yes. 13 BY MS. O'DELL: 14 A. Talc not containing asbestos 15 asbestos and fibrous talc reached the 16 ovaries, they can cause ovarian cancer? 17 A. Yes. 18 asbestos? 18 Q. And IARC concluded that 19 MS. BROWN: Objection, form. 20 asbestos and fibrous talc were known human 20 Carcinogens?	4	fibers?	4	system and get it that way. Fibrous
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9 you've just expressed supported by the data 10 Why don't you turn to page 277, 11 please. And, Dr. Wolf, what is the substance 12 that the IARC working group is considering in 13 the 2010 monograph? 14 A. Talc not containing asbestos 15 foreign fibers. 16 Q. In other words, the 2010 17 monograph purported not to address talc with 18 asbestos? 19 you've just expressed supported by the data 10 in the IARC monograph, the 2012 monograph 11 A. Yes. 12 MR. KLATT: Objection, form. 13 BY MS. O'DELL: 14 Q. And did IARC conclude that when 15 asbestos and fibrous talc reached the 16 ovaries, they can cause ovarian cancer? 17 MS. BROWN: Objection, form. 18 A. Yes. 19 A. Yes. 19 And IARC concluded that 19 MS. BROWN: Objection, form. 20 carcinogens?	7	Q. Let me just ask let me ask	7	BY MS. O'DELL:
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	19	MS. BROWN: Objection, form.	19	asbestos and fibrous talc were known human
	20	MR. KLATT: Objection, form.	20	carcinogens?
21 A. To investigate what they 21 A. Yes.	21	A. To investigate what they	21	A. Yes.
thought or assumed was pure platy talc. 22 Q. You were asked a number of	22		22	
23 BY MS. O'DELL: 23 questions about whether asbestos was			1	•
Q. Is based on your review of 24 necessary in order to reach your opinions	24	Q. Is based on your review of	24	necessary in order to reach your opinions

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bout talcum powder products causing ovarian ancer. You recall those questions? A. Yes. Q. And is asbestos, as a component of talcum powder products, essential in order or talcum powder, baby powder and Shower to thower causing ovarian cancer? MS. BROWN: Objection to the form of the question. A. So a talcum powder product has all of these substance and I assessed it as a whole. Multiple of the substances are either mown to be carcinogenic or other substances ossibly carcinogenic or fragrances tritating and inflammatory. I looked at the roduct as a whole. MY MS. O'DELL: Q. If and you and in doing that, looking at the product as a whole, was important to you to consider whether there was a potent carcinogen such as asbestos in	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MS. BROWN: Objection to the form of the question. BY MS. O'DELL: Q. And did Dr. Longo find that there was fibrous talc present in 41 out of 42 samples? MS. BROWN: Objection. A. She found fibrous talc in 41 of 42 samples. THE REPORTER: Hold on a second. I'm not hearing THE WITNESS: I'm sorry. A. She MS. BROWN: I sorry. Go ahead. A. She found fibrous talc in 41 of MS. BROWN: He. A. He. I keep picturing a woman.
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important to you to consider whether there vas a potent carcinogen such as asbestos in	1	
vas a potent carcinogen such as asbestos in	1	Fibrous talc in 41 of 42 samples.
· ·	1 41	MS. BROWN: And, Doctor, if you
ne product?	22	wouldn't mind just giving me second to
MS. BROWN: Form.	23	object before you start answering
A. It was information that added	24	THE WITNESS: I'm sorry.
Page 459		Page 461
my concerns about the product. But	1	MS. BROWN: it will make the
		court reporter's job easier.
		THE WITNESS: Sorry.
	4	BY MS. O'DELL:
	5	Q. And if you pulled any one
	6	component that you've talked about today out
•	7	of the talcum powder products, would that
	8	change your opinions?
ther asbestos fibers, one way or the other,	9	A. No.
ast add to my concern.	10	MS. O'DELL: That's all I have,
BY MS. O'DELL:	11	Dr. Wolf. Thank you.
Q. Yeah. You and just when you	12	MS. BROWN: Go off?
vere relying, I think you misspoke. You were	13	MR. KLATT: Yeah.
aying the 41 out of 42 samples in	14	MS. BROWN: Can we go off for
Or. Longo's testing and you referred to platy	15	one second?
alc. Did you mean to say that?	16	THE VIDEOGRAPHER: Going off
MS. BROWN: Objection to the	17	the record. The time is 6:36 p.m.
form.	18	(Recess taken from 6:36 p.m. to
A. No, I meant fibrous talc.	19	6:44 p.m.)
BY MS. O'DELL:	20	THE VIDEOGRAPHER: Back on the
Q. And Dr. Longo tested Johnson &	21	record. The time is 6:44 p m.
ohnson historical samples for the presence	22	FURTHER EXAMINATION
	23	BY MS. BROWN:
i ilulous taic:	24	Q. Dr. Wolf, you were just asked
	nowing that platy talc can cause inflammation and is possibly carcinogenic, as er IARC, and that platy talc appears to be lmost universally, as per Longo's testing, art of talcum powder product, 41 out of 42 amples that she tested, and that fibrous alc is asbestos, a form of asbestos, the ther asbestos fibers, one way or the other, ast add to my concern. BY MS. O'DELL: Q. Yeah. You and just when you were relying, I think you misspoke. You were aying the 41 out of 42 samples in or. Longo's testing and you referred to platy alc. Did you mean to say that? MS. BROWN: Objection to the form. A. No, I meant fibrous talc. BY MS. O'DELL: Q. And Dr. Longo tested Johnson &	nowing that platy talc can cause inflammation and is possibly carcinogenic, as er IARC, and that platy talc appears to be Ilmost universally, as per Longo's testing, art of talcum powder product, 41 out of 42 amples that she tested, and that fibrous alc is asbestos, a form of asbestos, the ther asbestos fibers, one way or the other, ast add to my concern. In the concern of the

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1	some questions by counsel for plaintiffs	1	was in her testing. I don't remember the
2	regarding Exhibits 20 and 21, articles that	2	word "quantification of asbestos."
3	you authored regarding ovarian cancer. Do	3	BY MS. BROWN:
4	you recall those questions?	4	Q. So you are relying on
5	A. Yes.	5	Dr. Longo's testing for how much asbestos is
6	Q. Okay. And you'd agree with me	6	in baby powder?
7	that over the course of your career, you have	7	A. To interpret her findings.
8	authored a number of articles, both in the	8	MS. O'DELL: His findings.
9	medical press and in the popular press,	9	A. His findings. I'm trying to
10	regarding ovarian cancer, correct?	10	make Dr. Longo a woman. It's not working.
11	A. Yes.	11	BY MS. BROWN:
12	Q. And you have never, over the	12	Q. You in sitting here and
13	course of your entire career, published the	13	when you offered your opinion in this case,
14	opinion that talc causes ovarian cancer,	14	though, you didn't have in mind a certain
15	correct?	15	amount of asbestos that was needed or found
16	A. I have not.	16	in the baby powder to cause ovarian cancer,
17	Q. And you have never, over the	17	right?
18	course of your career, blogged or tweeted or	18	MS. O'DELL: Object to the
19	posted anything on any of the social media	19	form.
20	accounts where you have a presence, that talc	20	A. Any amount of asbestos in baby
21	causes ovarian cancer, correct?	21	talcum powder product, I'm concerned about
22	A. I have not.	22	causing ovarian cancer.
23	Q. And you have never spoken at	23	BY MS. BROWN:
24	any symposia or conference and offered the	24	Q. And if I understood your
	Page 463		Page 465
1	opinion that talc causes ovarian cancer,	1	testimony to plaintiffs' lawyer earlier, if
2	correct?	2	you took asbestos the asbestos that you
3	MS. O'DELL: Object to the	3	think is in baby powder, if you took it out,
4	form. It's already been covered	4	you would still hold the opinion that baby
5	previously today.	5	powder causes ovarian cancer; is that right?
6	MS. BROWN: Form is the	6	A. Yes.
7	objection.	7	Q. And, in fact, that's your
8	A. Not that I recall.	8	opinion as it relates to any of the
9	BY MS. BROWN:	9	components of baby powder that you believe
10	Q. You were asked some questions	10	exists, such as platy tale, fibrous tale,
11	regarding the work of Dr. Longo and	11	asbestos, heavy metals and fragrances,
12	Dr. Rigler. Do you recall those?	12	correct?
13	A. Yes.	13	MS. O'DELL: Object to the
14	Q. And I assume you have not met	14	form.
15	Dr. Longo; is that correct?	15	A. If I took any one of those out,
	A. No, I have not.	16	I think that talcum powder products would
16			stell course extension concen
17	Q. Okay. And you told counsel for	17	still cause ovarian cancer.
17 18	Q. Okay. And you told counsel for plaintiffs, that you are relying on	18	BY MS. BROWN:
17 18 19	Q. Okay. And you told counsel for plaintiffs, that you are relying on Dr. Longo's quantification of asbestos. Was	18 19	BY MS. BROWN: Q. And what if you took two out of
17 18 19 20	Q. Okay. And you told counsel for plaintiffs, that you are relying on Dr. Longo's quantification of asbestos. Was that your testimony?	18 19 20	BY MS. BROWN: Q. And what if you took two out of the five out, would you still hold the
17 18 19 20 21	Q. Okay. And you told counsel for plaintiffs, that you are relying on Dr. Longo's quantification of asbestos. Was that your testimony? MS. O'DELL: Object to the	18 19 20 21	BY MS. BROWN: Q. And what if you took two out of the five out, would you still hold the opinion that powder products cause ovarian
17 18 19 20 21 22	Q. Okay. And you told counsel for plaintiffs, that you are relying on Dr. Longo's quantification of asbestos. Was that your testimony? MS. O'DELL: Object to the form.	18 19 20 21 22	BY MS. BROWN: Q. And what if you took two out of the five out, would you still hold the opinion that powder products cause ovarian cancer?
17 18 19 20 21	Q. Okay. And you told counsel for plaintiffs, that you are relying on Dr. Longo's quantification of asbestos. Was that your testimony? MS. O'DELL: Object to the	18 19 20 21	BY MS. BROWN: Q. And what if you took two out of the five out, would you still hold the opinion that powder products cause ovarian

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	Page 466		Page 468
1	A. If you took any one of them	1	A. There isn't epidemiology
2	out, I would still have the opinion that	2	because because I don't know that the
3	talcum powder product causes ovarian cancer.	3	talcum powder product in the epidemiology
4	I don't know how you can take all of them out	4	left any of those out.
5	and still have a talcum powder product.	5	Q. So you issued a multipage
6	BY MS. BROWN:	6	report in this case, right, Dr. Wolf?
7	Q. Well, you understand that there	7	A. Yes.
8	is talcum powder exists that does not	8	Q. And that report contains
9	include fragrances, heavy metals, asbestos	9	numerous cites to epidemiology that looked at
10	and fibrous tale. Do you have that	10	people using cosmetic talcum powder, correct?
11	understanding?	11	A. That's correct.
12	MS. O'DELL: Object to the	12	Q. Is it your testimony here today
13	form.	13	that none of that epidemiology informs your
14	A. I'm not sure that there's	14	opinion about Johnson & Johnson baby powder
15	talcum powder that doesn't have at least	15	products?
16	fibrous talc.	16	A. That is not
17	BY MS. BROWN:	17	MS. O'DELL: Excuse me.
18	Q. And so are you of the opinion	18	A my opinion.
19	that platy talc and fibrous talc alone cause	19	MS. O'DELL: Object to the
20	ovarian cancer?	20	form, misstates her testimony.
21	MS. O'DELL: Object to the	21	A. What my understanding of your
22	form.	22	question was is, do I have epidemiologic
23	A. I'm of the opinion that talcum	23	studies that show that if one any one of
24	powder product contains all of those	24	those substances is left out of the product,
	Page 467		Page 469
1	ingredients that we list and that it causes	1	that it causes ovarian cancer. And what my
2	ovarian cancer.	2	answer is, is that my understanding is that
3	BY MS. BROWN:	3	all of the epidemiologic studies are looking
4	Q. I'm with you on that. What I	4	at the product as I understand it and so I
5	want to know is, are you of the opinion that	5	can't give I cannot refer to a study that
6	platy talc and fibrous talc alone cause	6	has the product without one of those.
7	ovarian cancer?	7	BY MS. BROWN:
8	A. I'm of the opinion that platy	8	Q. And you were asked some
9	talc can cause cancer and fibrous talc is	9	questions about the IARC monograph on
10	considered a form of asbestos and can cause	10	nonasbestiform talc. Do you remember that?
11	cancer. And that those are two of the	11	A. Yes.
12	products in talcum powder product, two of the	12	Q. And many, if not most, of the
13	substances in talcum powder product.	13	epidemiology studies that you cite in your
14	I don't know of any evidence	14	report are contained and considered within
15	that the product doesn't have all of the	15	the IARC monograph on nonasbestiform talc.
16	substances that I've described, and I don't	16	True?
17	know that I can make an opinion that says if	17	MS. O'DELL: Object to the
18	it just had this and this, it would or would	18	form.
19	not cause cancer.	19	A. I believe that's not true
20	Q. And for your opinion, that if	20	because the again, this was 2010 and many
	you pulled out any one component of the	21	of the references that I report are after
21			
21 22	powder products, the product would still	22	this was published and they were only
	powder products, the product would still cause ovarian cancer, do you rely on the same	22 23	this was published and they were only reviewing up to 2006 or 2007 when they wrote

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1 BY MS. BROWN: 2 Q. Sure. And for studies that 3 looked at talcum powder products prior to 4 2010, you have considered and relied on those 5 in your report as well? 6 A. Yes. 7 Q. And, in fact, the Penninkilampi 8 meta-analysis that you regard as high 9 quality, includes a majority of studies that 10 were considered by the IARC group in 2006, 10 A. That's correct. 2 Q. Have you ever recond patient of yours who does not cancer yet, that she have her considered and relied on those 4 cancer yet, that she have her considered of long-term talc uses 5 because of long-term talc uses 6 A. No. 7 Q. Would you make that 8 recommendation in the future 9 quality, includes a majority of studies that 9 A. It would be a discuss would have with the patient.	have ovarian ovaries removed ?
looked at talcum powder products prior to 2010, you have considered and relied on those in your report as well? A. Yes. Q. And, in fact, the Penninkilampi meta-analysis that you regard as high quality, includes a majority of studies that were considered by the IARC group in 2006, patient of yours who does not cancer yet, that she have her of because of long-term talc use? A. No. Q. Would you make that recommendation in the future? A. It would be a discuss would have with the patient.	have ovarian ovaries removed ?
3 looked at talcum powder products prior to 4 2010, you have considered and relied on those 5 in your report as well? 6 A. Yes. 7 Q. And, in fact, the Penninkilampi 8 meta-analysis that you regard as high 9 quality, includes a majority of studies that 10 were considered by the IARC group in 2006, 3 patient of yours who does not cancer yet, that she have her of because of long-term talc use? 4 cancer yet, that she have her of because of long-term talc use? 5 because of long-term talc use? A. No. 7 Q. Would you make that recommendation in the future? 9 A. It would be a discuss would have with the patient.	have ovarian ovaries removed ?
4 2010, you have considered and relied on those 5 in your report as well? 6 A. Yes. 7 Q. And, in fact, the Penninkilampi 8 meta-analysis that you regard as high 9 quality, includes a majority of studies that 10 were considered by the IARC group in 2006, 4 cancer yet, that she have her of because of long-term talc use? 5 because of long-term talc use? 6 A. No. 7 Q. Would you make that recommendation in the future? 9 A. It would be a discuss would have with the patient.	ovaries removed?
in your report as well? A. Yes. Q. And, in fact, the Penninkilampi meta-analysis that you regard as high quality, includes a majority of studies that were considered by the IARC group in 2006, because of long-term talc uses A. No. Q. Would you make that recommendation in the future A. It would be a discuss would have with the patient.	? at
6 A. Yes. 7 Q. And, in fact, the Penninkilampi 7 Q. Would you make that 8 meta-analysis that you regard as high 8 recommendation in the future 9 quality, includes a majority of studies that 9 A. It would be a discuss were considered by the IARC group in 2006, 10 would have with the patient.	at
7 Q. And, in fact, the Penninkilampi 7 Q. Would you make that meta-analysis that you regard as high 8 recommendation in the future 9 quality, includes a majority of studies that 9 A. It would be a discuss were considered by the IARC group in 2006, 10 would have with the patient.	
meta-analysis that you regard as high a recommendation in the future quality, includes a majority of studies that a quality includes a quality includes a majority of studies that a quality includes a majority of studies that a quality includes a quali	
9 quality, includes a majority of studies that 9 A. It would be a discuss were considered by the IARC group in 2006, 10 would have with the patient.	7
were considered by the IARC group in 2006, 10 would have with the patient.	
11 correct? 11 of her risk factors, if her only	_
12 MS. O'DELL: Object to the 12 was talcum powder usage, I w	
13 form. 13 her to know that she's at an in	
14 A. It definitely includes some of 14 and let her make the decision	
15 those older studies. 15 Q. Are you aware of an	
16 MS. BROWN: I have no further 16 professional	у
17 questions at this time. 17 professional 17 guestions at this time. 17 MS. O'DELL: Excuso	a ma Milza
*	
1	•
19 more. 19 MS. O'DELL: I'm sor	rry. were
20 FURTHER EXAMINATION 20 you done, Dr. Wolf?	•
BY MR. KLATT: 21 A. I mean, that's a tough	
Q. Can you pull out Exhibit 9, question. The challenge is the	
Dr. Wolf. 23 screening for ovarian cancer,	-
A. Exhibit 9, yes. 24 you have someone who's at ar	n increased risk,
Page 471	Page 473
1 Q. And Exhibit 9 is the document 1 you can't say, well, we'll look a	ıt you more
that Ms. O'Dell discussed with you a few 2 often, we'll test you more often	
minutes ago, where the FDA around 2009-2010, 3 test to find ovarian cancer early	
4 tested both raw talc and off-the-shelf 4 On the other hand, the	
5 talc-based body powder products, correct? 5 generally accepted lifetime risk	for ovarian
6 A. Yes. 6 cancer to push a doctor to recor	
7 Q. And I think you read a portion 7 prophylactic surgery removal o	
8 where it said only four talc suppliers had 8 ovaries, is a 10 percent or great	
9 submitted their products to the FDA for 9 risk.	
10 testing. Do you recall that? 10 BY MR. KLATT:	
11 A. Yes. 11 Q. And talc use doesn't c	onfer
12 Q. Are you aware that my client, 12 that level of use, correct?	
13 Imerys, was one of the four that did submit 13 A. It does not.	
their talc for testing? And I'll just tell 14 Q. Okay. And you're not	t aware of
15 you, in case you don't know, that Imerys is 15 any medical professional organ	
the successor to Rio Tinto and Luzenac. And leading that has ever made the interest of the successor to Rio Tinto and Luzenac. And leading that has ever made the interest of the successor to Rio Tinto and Luzenac.	
are those talcs tested by the FDA in Exhibit 17 that women who have used gen	
18 9? 18 certain period of time should co	
19 A. Yes. 19 their ovaries and fallopian tube	_
	o removeu,
·	7
·	
	-
Q. In either the Rio Tinto 23 study, case report, case series, a	
24 Minerals/Luzenac America talc, correct? 24 study at all, showing that a wor	an our verle o reee d

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	Page 474		Page 476
1	Johnson & Johnson baby powder or Shower to	1	Q. Sure. You've seen you've
2	Shower product, had inflammation of her	2	read the IARC monograph, you know in indoor
3	reproductive tract as a result of that	3	air and outdoor air in urban areas, there's
4	powder?	4	concentrations of asbestos fibers just in the
5	MS. O'DELL: Objection to the	5	air we breath.
6	form.	6	MS. O'DELL: Objection to form.
7	A. I can't I can't show you a	7	A. I would have to test the air to
8	paper that shows that.	8	know for sure that there's asbestos fibers in
9	BY MR. KLATT:	9	the air here.
10	Q. You believe that talc can get	10	BY MR. KLATT:
11	to the ovaries via inhalation, correct?	11	Q. You haven't seen that data in
12	A. Yes.	12	the IARC monograph that you reviewed?
13	Q. Are you aware that talc's	13	A. In this about the air in
14	ubiquitous in the environment?	14	this room, no.
15	A. Yes.	15	Q. I'm talking about indoor air
16	Q. Are you aware that women just	16	and outdoor area in urban areas. You've seen
17	walking around on city streets can breathe	17	in the IARC monograph, that there's a certain
18	talc particles in during the course of their	18	quantity of asbestos fibers in that air,
19	life?	19	correct?
20	MS. O'DELL: Objection to form.	20	A. There is a certain amount of
21	A. I'm aware that talc is	21	asbestos fibers in the air.
22	ubiquitous to the environment.	22	Q. And so when you breathe that
23	BY MR. KLATT:	23	air, you can inhale those asbestos fibers
24	Q. Which means you can breathe it	24	and, according to you, they can end up in the
	Page 475		Page 477
1	in every single breath you take, correct?	1	ovary, correct?
2	MS. O'DELL: Object to the	2	A. Yes.
3	form.	3	Q. And the same with talc
4	A. I'm aware that talc is	4	particles, correct?
5	ubiquitous to the environment.	5	A. Yes.
6	BY MR. KLATT:	6	Q. Didn't even necessarily come
7	Q. And so since it's ubiquitous in	7	from body powder, correct
8	the environment and since you take a breath,	8	MS. O'DELL: Objection, form.
9	you know, many times a minute, you're	9	BY MR. KLATT:
10	probably inhaling talc particles every time	10	Q just from the environment?
11	you breath, or at least every minute you	11	MS. O'DELL: Objection to the
12	breath, correct?	12	form.
13	MS. O'DELL: Objection to the	13	A. You can inhale it from the air
14	form.	14	and it can get to the ovaries.
15	A. I don't have evidence to	15	BY MR. KLATT:
16	support that.	16	Q. How long have you known
17	BY MR. KLATT:	17	Margaret Thompson, who is sitting here today?
18	Q. Well, you and you know, for	18	A. I met her about two a little
19	example, that there's asbestos fibers in this	19	over two years ago.
20	room as we sit here right now, don't you, Dr.	20	Q. Okay. You've never seen or
21	Wolf?	21	been referred any patients by her; is that
22	MS. O'DELL: Objection to form.	22	correct?
23	A. Do I know that for a fact?	23	A. No.
24	BY MR. KLATT:	24	Q. Have you communicated with any
		1	

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	Page 478		Page 480
1	of the other plaintiffs' consultants by in	1	talked a little bit about the fact that he
2	person, by phone, by e-mail, in any form or	2	worked in Detroit at Wayne State, where I
3	fashion at all?	3	know the GYN oncologist, and we were friendly
4	A. The only one I spoke with was	4	about that. I told him I thought his
5	Dr. Saed. I spoke on the phone with him once	5	research was interesting and important. That
6	about, I'm going to say, a year or so ago.	6	was it.
7	Q. And what was the substance of	7	Q. Are any of the Wayne State
8	that conversation?	8	gynecologic oncologists you know coauthors of
9	A. It was about his research. I	9	Dr. Saed's paper?
10	had questions about what he was doing.	10	A. Yes. Dr. Robert Morris.
11	Q. And what did you ask him?	11	Q. Have you talked to Dr. Morris
12	A. I don't recall exactly.	12	about this research?
13	Q. Did you keep notes?	13	A. I haven't spoken with
14	A. I did not.	14	Dr. Morris about anything in a couple of
15	Q. How long was the phone call?	15	years.
16	A. I think it was about a half an	16	Q. Have you communicated in any
17	hour.	17	form or fashion with any governmental
18	Q. And when was that phone call?	18	agencies about talc and ovarian cancer?
19	MS. O'DELL: I think she just	19	A. I have not.
20	said.	20	Q. Did you keep any notes of your
21	A. I think it was about a year	21	discussion with Dr. Saed? Maybe I asked
22	ago. I can see I was standing in Arizona,	22	that.
23	which meant I was still working for Provista,	23	MS. O'DELL: Asked and
24	so it was sometime before I left there.	24	answered.
	Page 479		Page 481
1	BY MR. KLATT:	1	A. I did not.
2	Q. Which month would that have	2	BY MR. KLATT:
3	been?	3	Q. Did you ask Dr. Saed during
4	A. I don't know.	4	that phone call, who was funding his
5	Q. When did you leave there?	5	experiments or work that he was doing?
6	A. My last working day there was	6	A. I don't remember.
7	October 1st, but I hadn't been to Arizona for	7	Q. What prompted that phone call?
8	months by then.	8	A. Margaret and I spoke about that
9	Q. October 1st of?	9	he was doing some research and she asked him
10	A. 2018.	10	would it be okay if I talked to him, and so I
11	Q. Okay. But you think it was	11	called him.
12	about a year ago that you spoke to him?	12	Q. How long have you been a
13	A. I do.	13	gynecologic oncologist?
14	Q. Approximately January of 2018?	14	A. I finished my fellowship in
15	MS. O'DELL: Objection to form.	15	1995.
16	She's given her best estimate.	16	Q. Had you ever heard of Dr. Saed
17	A. Approximately.	17	before your discussion with Margaret
	BY MR. KLATT:	18	Thompson?
18			A. I had not. He's a Ph.D., so
18 19	Q. Can you tell me anything else	19	
18 19 20	Q. Can you tell me anything else about the substance of what you talked about	20	it's not necessarily that I would know who he
18 19 20 21	Q. Can you tell me anything else about the substance of what you talked about with Dr. Saed on that phone call?	20 21	it's not necessarily that I would know who he was.
18 19 20 21 22	Q. Can you tell me anything else about the substance of what you talked about with Dr. Saed on that phone call? A. I asked him what research he	20 21 22	it's not necessarily that I would know who he was. Q. Well, you've been an academic
18 19 20 21	Q. Can you tell me anything else about the substance of what you talked about with Dr. Saed on that phone call?	20 21	it's not necessarily that I would know who he was.

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	Page 482		Page 484
1	Q. You have never once heard of	1	record.
2	Dr. Saed, correct?	2	THE VIDEOGRAPHER: This
3	A. I had not.	3	concludes the deposition of Dr. Judy
4	MR. KLATT: That's all the	4	Wolf. Going off the record. The time
5	questions I have.	5	is 7:03 p m.
6	MS. O'DELL: I just have one	6	(Deposition concluded at
7	question.	7	7:03 p m.)
8	FURTHER EXAMINATION	8	7.03 p III.)
9	BY MS. O'DELL:	9	
10		10	
11	Q. Dr. Wolf, are your opinions in	11	
	this case contained in your report and in the	12	
12	deposition you've given here today?		
13	A. Yes.	13	
14	MS. O'DELL: That's all I have.	14	
15	MS. BROWN: Just one final	15	
16	question to that.	16	
17	FURTHER EXAMINATION	17	
18	BY MS. BROWN:	18	
19	Q. One final question, Doctor.	19	
20	You're not relying on any materials to form	20	
21	your opinion that are not contained in your	21	
22	report or were discussed or marked as	22	
23	exhibits here today, correct?	23	
24	A. My report, no, and my	24	
	Page 483		Page 485
1	references, everything that's here today.	1	CERTIFICATE
2	Nothing else.	2 3	I, MICHEAL A JOHNSON, Registered
3	Q. And for a housekeeping item,	4	Diplomate Reporter and Certified Realtime
4	are all of the binders on that table to your	4	Reporter, do hereby certify that prior to the commencement of the examination, JUDITH K
5	left, are those documents on Exhibit B of	5	WOLF, M D was duly sworn by me to testify to the truth, the whole truth and nothing but
6	your report?	6	the truth
7	A. Yes.	7	I DO FURTHER CERTIFY that the foregoing is a verbatim transcript of the
8	Q. Nothing additional, right?	8	testimony as taken stenographically by and
9	A. Nothing additional.	9	before me at the time, place and on the date hereinbefore set forth, to the best of my
10	Q. And all of the binders on the		ability
11	table are the references in your report?	10	I DO FURTHER CERTIFY that I am
12	A. The references and the	11	neither a relative nor employee nor attorney
13	additional information that we provided	12	nor counsel of any of the parties to this action, and that I am neither a relative nor
14	today.		employee of such attorney or counsel, and
15	Q. Okay. So with that, I don't	13	that I am not financially interested in the action
16	think it's necessary, unless anyone	14	
- 0	disagrees, to mark all of the binders.	15 16	
17	disagrees, to mark all of the officers.	17	MICHEAL A JOHNSON,
17 18	MS BROWN. And I have no	· 1/	
18	MS. BROWN: And I have no further questions. Thanks		NCRA Registered Diplomate Reporter
18 19	further questions. Thanks.	18	NCRA Certified Realtime Reporter
18 19 20	further questions. Thanks. MR. KLATT: As long as the		NCRA Certified Realtime Reporter Certified LiveNote Reporter
18 19 20 21	further questions. Thanks. MR. KLATT: As long as the binders don't contain any highlighting	18 19	NCRA Certified Realtime Reporter
18 19 20 21 22	further questions. Thanks. MR. KLATT: As long as the binders don't contain any highlighting or notations.	18 19 20 21	NCRA Certified Realtime Reporter Certified LiveNote Reporter
18 19 20 21	further questions. Thanks. MR. KLATT: As long as the binders don't contain any highlighting	18 19 20	NCRA Certified Realtime Reporter Certified LiveNote Reporter

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